

THIN FILM PART (USA) NUMBERING RULES

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02008

Commodity Code

SAP Part Number

02008N1R00FBWS

02008L10R0GBWS

SAP Description02008 1206 1 Ω 1% 400ppm WS02008 1206 10 Ω 2% 200ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
02008 1206 Low to High value chip resistor	L ¹ =200ppm/c N ² =400ppm/c	“R” designates the demcimal point. (1 Ω – 10 Ω) Example 1R00 = 1 Ω 1006 = 10M Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

L Characteristic qualified for 10 Ω – 10M Ω resistance valueN Characteristic qualified for 1 Ω – 10M Ω resistance value

02010

Commodity Code

SAP Part Number

02010MR1000FBWS

02010NR9999GBWS

SAP Description02010 1206 0.1 Ω 1% 300ppm WS02010 1206 0.9999 Ω 2% 200ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
02010 1206 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the decimal point. (0.1 Ω -0.9999 Ω only) Example R1000 = 0.1 Ω R9999 = 0.9999 Ω	F = 1% G = 2% J = 5% K = 10% M = 20%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

03022

Commodity Code

SAP Part Number

03022MR1000FBWS

03022NR9999GBWS

SAP Description03022 0603 0.1 Ω 1% 300ppm WS03022 0603 0.9999 Ω 2% 200ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
03022 0603 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the demcimal point. (0.1 Ω -0.9999 Ω only) Example R1000 = 0.1 Ω R9999 = 0.9999 Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

04008

Commodity Code 8533210030

SAP Part Number

04008E1002FBWS

04008H2002GBWS

04008H2002GBAWS

SAP Description

04008 0402 10K 1% 25ppm WS

04008 0402 20K 2% 50ppm WS

04008 0402 20K 2% 50ppm A(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
04008 0402 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (20Ω-50kΩ only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

VISHAY
04008-K1001FBT
04008-K1001FBA

SAP

04009

Commodity Code 8533210030

SAP Part Number

04009E1002FBWS

04009H2002GBWS

04009H2002GBAWS

SAP Description

04009 0603 10K 1% 25ppm WS

04009 0603 20K 2% 50ppm WS

04009 0603 20K 2% 50ppm A(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
04009 0603 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10Ω-130kΩ only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

VISHAY

SAP

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

04009-K1001FBT

04009-K1001FBA

06018

Commodity Code

SAP Part Number

0601810011001FFTS

SAP Description

06018 1k 1k 1% Tol TS

Model	Divider Resistance R1	Divider Resistance R2	Absolute Tolerance	Ratio Tolerance	Packaging
5 DIGITS	4 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
06018 SOT- 23 3 pin Divider	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K	B=0.1% C = 0.25% D=0.5% F = 1% G = 2% J = 5% K=10%	A= 0.05% B= 0.1% C = 0.25% D=0.5% F = 1% G = 2%	TS = 100 Min 1 Mult

12004

Commodity Code

SAP Part Number

12004-NR1000FBWS

SAP Description12004 0505 0.1 Ω 1% 400ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
6 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
12004- 0505 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the demcimal point. (0.1 Ω – 0.999 Ω) Example R1000 = 0.1 Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

12005

Commodity Code

SAP Part Number

12005-NR1000FBWS

SAP Description12005 1005 0.1 Ω 1% 400ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
12005- 1005 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the demcimal point. (0.1 Ω – 0.999 Ω) Example R1000 = 0.1 Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

12008

Commodity Code

SAP Part Number

12008-NR1000FBWS

SAP Description12008 0705 0.1 Ω 1% 400ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
12008- 0705 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the demcimal point. (0.1 Ω – 0.999 Ω) Example R1000 = 0.1 Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

12009

Commodity Code

SAP Part Number

12009-NR1000FBWS

SAP Description12009 2010 0.1 Ω 1% 400ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
12009- 2010 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the demcimal point. (0.1 Ω – 0.999 Ω) Example R1000 = 0.1 Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

12010

Commodity Code

SAP Part Number

12010-NR1000FBWS

SAP Description12010 2512 0.1 Ω 1% 400ppm WS

Model	Characteristic	Resistance	Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
12010- 2512 Low value chip resistor	M=300ppm/c N=400ppm/c	“R” designates the demcimal point. (0.1 Ω – 0.999 Ω) Example R1000 = 0.1 Ω	F = 1% G = 2% J = 5% K = 10%	B = Solderable	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

13003

Commodity Code

SAP Part Number

13003-CA001AAUF

13003-CA002BAUF

SAP Description

13003 8PIN DIP 4R 0.05%

13003 8PIN DIP 4R 0.1%

Model	Characteristic	Resistance DESIGNATOR	Tolerance	DPA Test	Packaging
6 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
13003- 8Pin Hermetic DIP 4 resistor	H = 50ppm/c V = 50ppm/C /5ppm/C Track R = 25ppm/C K = 100ppm/C M = 300ppm/C C= 50ppm/C	A001 = 100k, 2k, 2K, 100k A002 = 100k, 1k, 1k, 100k A003 = 50k, 1k, 1k, 50k A004 = 25k, 11k, 1k, 25k A005 = 20k, 1k, 1k, 20k A006 = 10k, 1k, 1k, 10k A007 = 10k, 2k, 2k, 10k A008 = 10K, 5k, 5k, 10k See DLA spec for 4 R values	A = 0.05% B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	A = DPA required Blank = DPA Not required	UF = 100 Min 1 Mult tube packaged

83401 (Document # 60116)

Commodity Code

SAP Part Number

M8340107H1002BGUF

M8340109V2002FCUI

SAP Description

M8340107 6Pin 10K 0.1% 50PPM G UF

M8340109 10Pin 20K 1% 50/5PPM C UI

Model	Schematic	Characteristic	Resistance	Tolerance	Schematic	Packaging
5 DIGITS	2 DIGIT	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 or 3 DIGITS
M83401 Single In line Resistor Network Low Profile C83401 Non Burn in screened network	07 = 6pin 08 = 8 pin 09 =10 pin 21 = 6pin * 22 = 8 pin * =10 pin * *No internal solder	H = 50ppm/c V = 50ppm/C /5ppm/C Track R = 25ppm/C K =100ppm/C M =300ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (100 ohms to 100K ohms) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	C= pin 1 common G = Isolated resistors	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date) S63= Special packaging BX = Boxed BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code)

87012

Commodity Code 8533210010

SAP Part Number

87012B1002HBUF

87012A2002VFUF

SAP Description

87012 16Pin B 10K 0.1% 50PPM UF

87012 16Pin A 20K 1% 50/5PPM UF

Model	Schematic	Resistance	Characteristic	Tolerance	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
87012 16 Pin molded Gullwing medium body	A = Isolated B = Bussed	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (100 ohms to 100K ohms) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	H = 50ppm/c V = 50ppm/C /5ppm/C Track R = 25ppm/C K =100ppm/C M =300ppm/C	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

87014

Commodity Code 8533210020

SAP Part Number

87014A1002BCUF

87014A2002FCUF

SAP Description

87014 16 terminal A 10K 0.1% 50PPM UF

87014 16 terminal A 20K 1% 50PPM UF

Model	Schematic	Resistance	Tolerance	Characteristic	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
87014 16Terminal leadless chip carrier	A = Bussed	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (50 ohms to 100K ohms) Example 100ohms = 1000 1000ohms = 1001	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	C = 50ppm/C Hermetic	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

87015

Commodity Code 8533210020

SAP Part Number

87015A1002BCUF

87015A2002FCUF

SAP Description

87015 28 terminal A 10K 0.1% 50PPM UF

87015 28 terminal A 20K 1% 50PPM UF

Model	Schematic	Resistance	Tolerance	Characteristic	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
87015 28 Terminal leadless chip carrier	A = bussed	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (50 ohms to 100K ohms) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	C = 50ppm/C Hermetic R = 25ppm/C Hermetic	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

87016

Commodity Code 8533210020

SAP Part Number

87016C1002BCUF

87016A2002FCUF

SAP Description

87016 20 terminal C 10K 0.1% 50PPM UF

87016 20 terminal A 20K 1% 50PPM UF

Model	Schematic	Resistance	Tolerance	Characteristic	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
87016 20 Termial leadless chip carrier	A = isolated C = bussed D = isolated B not available	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (50 ohms to 150K ohms) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	C = 50ppm/C Hermetic	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

87017

Commodity Code 8533210020

SAP Part Number

87017A1002FKUF

87017B2002GMUF

SAP Description

87017 20 terminal A 10K 1% 100ppm UF

87017 20 terminal B 20K 2% 300ppm UF

Model	Schematic	Resistance	Tolerance	Characteristic	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
87017 20 Terminal leadless chip carrier	A B	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-1Meg only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	F = 1% G = 2% J = 5%	K=100ppm/c M=300ppm/c	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

94012

Commodity Code 8533210030

SAP Part Number

94012E1002FBWS

94012H2002GBWS

94012H2002GBTWS

SAP Description

94012 0505 10K 1% 25ppm WS

94012 0505 20K 2% 50ppm WS

94012 0505 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94012 0505 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (20-130k only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94012-K1001FBT

94012-K1001FBA

94013

Commodity Code 8533210030

SAP Part Number

94013E1002FBWS

94013H2002GBWS

94013H2002GBTWS

SAP Description

94013 1005 10K 1% 25ppm WS

94013 1005 20K 2% 50ppm WS

94013 1005 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94013 1005 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-300k only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

VISHAY
94013-K1001FBT
94013-K1001FBA

SAP

94014

Commodity Code 8533210030

SAP Part Number

94014E1002FBWS

94014H2002GBWS

94014H2002GBAWS

SAP Description

94014 2208 10K 1% 25ppm WS

94014 2208 20K 2% 50ppm WS

94014 2208 20K 2% 50ppm A(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94014 2208 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-1.75M only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94014-K1001FBT

94014-K1001FBA

94015

Commodity Code 8533210030

SAP Part Number

94015E1002FBWS

94015H2002GBWS

94015H2002GBTWS

SAP Description

94015 0705 10K 1% 25ppm WS

94015 0705 20K 2% 50ppm WS

94015 0705 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94015 0705 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-300k only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

VISHAY
94015-K1001FBT
94015-K1001FBA

SAP

94016

Commodity Code 8533210030

SAP Part Number

94016E1002FBWS

94016H2002GBWS

94016H2002GBTWS

SAP Description

94016 1206 10K 1% 25ppm WS

94016 1206 20K 2% 50ppm WS

94016 1206 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94016 1206 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-1M only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100 Ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94016-K1001FBT

94016-K1001FBA

94017

Commodity Code 8533210030

SAP Part Number

94017E1002FBWS

94017H2002GBWS

94017H2002GBTWS

SAP Description

94017 2010 10K 1% 25ppm WS

94017 2010 20K 2% 50ppm WS

94017 2010 20K 2% 50ppm T(Type testing) WS

Model	Characteris tic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94017 2010 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-2Meg only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100 Ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94017-K1001FBT

94017-K1001FBA

94018

Commodity Code 8533210030

SAP Part Number

94018E1002FBWS

94018H2002GBWS

94018H2002GBTWS

SAP Description

94018 2512 10K 1% 25ppm WS

94018 2512 20K 2% 50ppm WS

94018 2512 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94018 2512 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-3Meg only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100 Ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94018-K1001FBT

94019

Commodity Code 8533210030

SAP Part Number

94019E1002FBWS

94019H2002GBWS

94019H2002GBTWS

SAP Description

94019 1010 10K 1% 25ppm WS

94019 1010 20K 2% 50ppm WS

94019 1010 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94019 1010 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (50-600k only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94019-K1001FBT

94019-K1001FBA

94025

Commodity Code 8533210030

SAP Part Number

94025E1002FBWS

94025H2002GBWS

94025H2002GBWS

SAP Description

94025 0502 10K 1% 25ppm WS

94025 0502 20K 2% 50ppm WS

94025 0502 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94025 0502 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (59-66k only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94025-K1001FBT

94026

Commodity Code 8533210030

SAP Part Number

94026E1002FBWS

94026H2002GBWS

94026H2002GBTWS

SAP Description

94026 1505 10K 1% 25ppm WS

94026 1505 20K 2% 50ppm WS

94026 1505 20K 2% 50ppm T(Type testing) WS

Model	Characteristic	Resistance	Tolerance	Term	Test Code	Packaging
5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT or NO DIGIT	2 DIGITS
94026 1505 Moisture Resistant Chip Resistor	E=25ppm/c H=50ppm/c K=100ppm/c M=300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. (10-1Meg only) Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% (>100 ohms) F = 1% G = 2% J = 5% K = 10%	B = Solderable	A = Space level code A T = Space level code T (Different test criteria for each code)	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Note: A or T character after termination code on DSCC P/N indicates Space level product. If quote request or purchase order has P/N's last character as an A or T, it will be a no bid item since Vishay Thin Film is not qualified to provide space level product.

Examples of no bid DSCC P/N's that would be noted on customer request for quote:

94026-K1001FBT

AORN (Document # 60127)

Commodity Code

SAP Part Number

AORN5-1AUF

AORN1001BUF

SAP Description

AORN 10K 2K 0.1% abs 0.05% ratio UF e4

AORN 1K 0.1% abs 0.1% ratio UF e4

Model	Resistance	Tolerance and Ratio Tolerance		Packaging
4 DIGITS	3, 4 or 5 DIGITS	1 DIGIT		2 DIGITS
AORN Lead Free (e4)	2-1 5-1 10-1 20-1 25-1 50-1 100-1 Or 1001 2001 4991 1002 2002 2492 4992 1003	Abs Tol. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	TAPE AND REEL T0 = 100 min., 100 mult T1 = 1000 min., 1000 mult T3 = 300 min., 300 mult T5 = 500 min., 500 mult TF = Full reel 3000 TS = 100 min., 1 mult UF = TUBED

Examples:

1. 2-1 = ratio between resistance values
2. 1001 = four 1K resistors

CS or CSD (Document number 60081 and 60046)

Commodity Code 8533210050 CS / 8533210060 CSD

SAP Part Number

CS1xx-xxxBx

CSD1xx-xxx-xUF

SAP Description

CS Custom 1xx-xxx BX

CSD Custom 1xx-xxx-x UF

Model	Custom part number	Packaging
2 or3 DIGITS	7 or 9 or 11 DIGITS	2 DIGITS
CSD Or CS	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xxx	(CSD & CS model) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date) (CSD & CS model) BX = BOX BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code)

CSO or CSOT CUSTOM (Document number 60011)

Commodity Code 8533210010

SAP Part Number

CSO1xx-xxxT1

CSOT1xx-xxx-xT1

CSOG1xx-xxx-xT1

SAP Description

CSO Custom 1xx-xxx T1

CSOT Custom 1xx-xxx-x T1 e1

CSOG Custom 1xx-xxx-x T1 e4

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGITS
CSO Tin lead CSOT Lead free (e1) CSOG Lead free (e4)	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xxx	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

DFN (Document number 60109)

Commodity Code 8533210010

SAP Part Number

DFNA1002AUF

SAP Description

DFNA 10K 0.1%abs 0.05%ratio UF e3

Model	Schematic	Resistance	Tolerance and Ratio Tolerance		Packaging
3 or 4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT		2 DIGITS
DFN Lead free (e3)	A = 4 isolated equal resistors	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K 4991 = 4.99K	Abs Tol. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1% *Z = 0.1% *Tol. Available 500 Ohm and up	Ratio 0.05% 0.1% 0.1% 0.1% 0.5% 0.025%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

DFN Custom

Commodity Code 8533210010

SAP Part Number

DFN1xx-xxxUF

SAP Description

DFN Custom 1xx-xxx UF

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGITS
DFN Lead free (e3)	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xxxx	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

DFNA Divider (Document number 60110)

Commodity Code 8533210010

SAP Part Number

DFNA5-1UF

DFNA100-1UF

SAP Description

DFNA 10K 2K 0.1%abs 0.05%ratio UF e3

DFNA 100K 1K 0.1%abs 0.05%ratio UF e3

Model	Divider Ratio	Packaging
4 or 5 DIGITS	3, 4 or 5 DIGITS	2 DIGITS
DFNA Lead free (e3)	2-1 = 10K, 5K 5-1 = 10K, 2K 10-1 = 10K,1K 20-1 = 20K, 1K 25-1 = 25K,1K 50-1 = 50K,1K 100-1 = 100K,1K	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date

ECSP CUSTOM

Commodity Code 8533210050

SAP Part Number

ECSP1xx-xxxUF

ECSP1xx-xxx-xUF

SAP Description

EC SIP Custom 1xx-xxx UF

EC SIP Custom 1xx-xxx-x UF

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
ECSP	1xx-xxx or 1xx-xxx-x	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date BX = Boxed

ECDP CUSTOM

Commodity Code 8533210060

SAP Part Number

ECDP1xx-xxxUF

ECDP1xx-xxx-xUF

SAP Description

EC DIP Custom 1xx-xxx UF

EC DIP Custom 1xx-xxx-x UF

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
ECDP	1xx-xxx or 1xx-xxx-x	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

FC (Document number 60093)

Commodity Code 8533210030

SAP Part Number

FC1206E1001BBTS

FC1206K1000FSTS

SAP Description

FC1206 25ppm 1K 0.1% B TS

FC1206 100ppm 100 1% S TS e1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 , 2 or 3 DIGITS	2 DIGITS
FC	0402 0505 0603 0805 1005 1206	E = 25ppm/C H = 50ppm/C K = 100ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	T =TopTerm Gold (Std) (e4)- Lead free RoHS compliant B = Tinned Wraparound G = Gold Wraparound (e4)- Lead free RoHS compliant TB = Top Term Solder TBS =Top Term Solder Lead Free (e1) RoHS compliant S = Wraparound Lead free (e1) Lead free RoHS compliant	BS = BULK 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

FLPK CUSTOM

Commodity Code 8533210020

SAP Part Number

FLPK1xx-xxxBX

FLPK1xx-xxx-xBX

SAP Description

FLPK Custom 1xx-xxx BX

FLPK Custom 1xx-xxx-x BX

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
FLPK	1xx-xxx or 1xx-xxx-x	BX = Box B1 = 1 per Box BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code) UF= Tubed (parts with formed leads only) UI = 100 Min/ 1Mult (item single lot date code) formed leads only UP = 100 Min/ 1Mult (Package unit single lot date code) formed leads only

FP200 or FP201 or FP202 (Document number 61073)

Commodity Code 8533210020

SAP Part Number

FP2001671001KBBCW

FP20216161232ACEGW

SAP Description

FP200 16p7R 1K 10%abs.01%rat 25 2ppm W

FP202 16P16R 12.3K .05%a.025%r100-10ppmW

Model	Case Size	Number of Resistors	Ohmic Value	Absolute Tolerance	Ratio Tolerance	Absolute TCR	Ratio TCR	Packaging
5 DIGITS	2 DIGITS	1 or 2 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT
FP200	14 16	7 8	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	A = 0.05% B = 0.1% C = 0.2% D = 0.5% F = 1% G = 2% J = 5% K = 10% M = 20%	B = 0.01% C = 0.025% D = 0.05% F = 0.1% H = 0.25% J = 0.5% K = 1.0% X = Not applicable	A = 10ppm/c B = 25ppm/c D = 50ppm/c E = 100ppm/c	*C = 2ppm *D = 3ppm F = 5ppm G = 10ppm X = N/A * Value dependant >250 ohms	W = WAFFLE 100 Min 1 Mult
FP201	14 16	12 14						
FP202	14 16	13 16						

HD (Document number 60047)

Commodity Code 8533210060

SAP Part Number

HD1xx-xxxUF

SAP Description

HD Custom 1xx-xxx UF

Model	Custom part number	Packaging
2 DIGITS	7 , 9, or 10 DIGITS	2 DIGITS
HD	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xx	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

HTRN (Document # 60111)

Commodity Code

SAP Part Number

HTRNX-YTS

SAP Description

HTRN X(R1) Y(R2) TS(Pack Code)

Model	Resistance (R1-R2)	Packaging
4 DIGITS	(3, 4 or 5 digits)	2 DIGITS
HTRN	2-1 4-1 5-1 10-1 20-1 25-1 50-1 100-1	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult UF = Tubed

HVPS (Document number 60091)

Commodity Code 8533210050

SAP Part Number

HVPS1E1003QUF

HVPS2SY1002TUF

SAP Description

HVPS1 25ppm 100K 0.02% UF

HVPS2S 10ppm 10K 0.01% UF e1

Model	TCR	Resistance	Tolerance	Packaging
5 or 6 DIGITS	1 DIGIT	4 up to 7 DIGITS	1 DIGIT	2 DIGITS
HVPS1 HVPS2 Tin Lead HVPS1S HVPS2S Lead free (e1)	E = 25ppm/c D = 15ppm/c Y = 10ppm/c Z = 5ppm/c	First 3 digits are significant figures. Last digit specifies the number of zeros to follow e.g 1001 = 1K 1002 = 10K 1005 = 10M for values greater than 1K ohm to signify a decimal point use K e.g 156K25 =156.25K ohms 208K33 =208.33K ohms	*A = 0.05% B = 0.1 % D = 0. 5% F = 1% Q = 0.02% T = 0.01% *Tolerance available on 1Kohm and up only R1 is reference resistors	BX, BI, BP not available after Oct 31, 2015. Use UF, UI BX = Boxed BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code) UF= Tubed UI = Tubed, Single Lot Date Code

JLCC CUSTOM

Commodity Code 8533210020

SAP Part Number

JLCC1xx-xxxUF

JLCC1xx-xxx-xUF

SAP Description

JLCC Custom 1xx-xxx UF

JLCC Custom 1xx-xxx-x UF e1

Note: most customs will be Tin/Lead, lead-free option will have an e1 at the end in the description

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
JLCC Tin Lead	1xx-xxx or 1xx-xxx-x	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

L- (Document number 60027)

Commodity Code 8533210030

SAP Part Number

L-1206M1R00GBT1

L-1206M**R100**KST1**SAP Description**

L-1206 300ppm 1 2% B T1

L-1206 300ppm .1 10% S T1 e1

MODEL	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
L- = Low value wraparound chip resistor	0505 0603 0805 1005 1020 1206 1505 2010 2512 0508 0612 1225	M = 300ppm/c N = 350ppm/c O = 400ppm/c P = 500ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : R100 = 0.1ohms 1R60 = 1.6ohms	F = 1% G = 2% H = 3% J = 5% K = 10% L = 20%	B = Solderable G = Epoxy/Solderable (e4)- Lead free RoHS compliant W = Wire bondable S = Lead Free (e1) RoHS compliant I = Au/Ni (IBM) (e4)- Lead free RoHS compliant	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= WAFFLE 100 min 100mult TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TI = 100 Min/ 1Mult (item single lot date code) TF = Full Reel TS = 100 Min 1 Mult TP = 100 Min/ 1Mult (Package unit single lot date code)

L-206-135P

Commodity Code 8533210030

SAP Part Number

L-206-135P1H0003WS

L-206-135PJ50004

SAP Description

L-206-135 1OHM ,3% 1206 WS

L-206-135 0.5OHM ,5% 1505 WS

MODEL	Custom #	Ohmic Value & Tolerance	Case Size	Packaging
2 DIGITS	5 DIGITS	5 DIGITS	1 DIGIT	2 DIGITS
L - = Low value wraparound chip resistor	206-135P (custom part number assigned to lockheed Martín 200172)	Nominal expressed in Ohms is identified by four digits and a letter the letter indicates tolerance and decimal point F=1%,G=2%,H=3% J=5%,K=10%,L=20% Example : 1H000 = 1 ohm, 3% J5000 = 0.5 ohm 5%	1 =0505 2=1005 3=1206 4=1505 5=2010	WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

LCC or TLCC or LCCT or TLCCT (Document number 60012)

Commodity Code 8533210020

SAP Part Number

TLCC20AE1002BUF

LCC16AE1002BUF

TLCCT16A01K1003KUF

TLCCT20A06K1003KUF

TLCCT20A03K1003KUF

SAP Description

TLCC 20 Iso 25ppm 10K 0.1% UF

LCC 16 Iso 25ppm 10K 0.1% UF

TLCCT 16 Bus 100ppm 100K 10% UF e1

TLCCT 20 Iso Adj 100ppm 100K 10% UF e1

TLCCT 20 Iso Par 100ppm 100K 10% UF e1

Model	Terminal Count	Schematics	TCR Characteristics	Resistance	Tolerance	Packaging
4 or 5 DIGITS	2 DIGITS	1 or 3 DIGITS	1 DIGIT	4 DIGITS	1 DIGITS	2 DIGITS
LCC Tin Lead	20	A = isolated resistors	E = 25ppm/c H = 50ppm/c K = 100ppm/c M = 300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% D = 0.5% F = 1% G = 2% J = 5% K = 10% S = SPECIAL	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)
LCCT Leadfree (e1)	20	B = Resistor to common bus				
TLCC Lead Free	16 20 24	A01 = Resistors to common bus				
TLCCT Lead free (e1)	16 20 24	A03 = Isolated Parallel resistors A06 = Isolated adjacent resistor				

LCC or LCCT CUSTOM

Commodity Code 8533210020

SAP Part Number

LCC1xx-xxxUF

LCCT1xx-xxx-xUF

SAP Description

LCC Custom 1xx-xxx UF

LCCT Custom 1xx-xxx-x UF e1

Note: most customs will be Tin/Lead, lead-free option will have an e1 at the end in the description

Model	Custom part number	Packaging
3 or 4 DIGITS	7 , 9. or 13 DIGITS	2 DIGITS
LCC Tin Lead Or LCCT Lead free (e1)	1xx-xxx or 1xx-xxx-x 2xx-xxx or 2xx-xxx-x or on LCC versión only 1xx-xxxxxxxx as below	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

Model	Custom part number	SCHEMATIC	Resistance	Tolerance	Packaging
3 DIGITS	7 DIGITS	1 digit	4 DIGITS	1 DIGIT	2 DIGITS
LCC	xxx-xxx	B = Bussed A = Issolated	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 10ohms = 10R0	F = 1% J = 5%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult

VISHAY

SAP

	(104-146 = legacy permark of GTSA2280 followed by TC, value and tolerante)		12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001		T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)
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Lot Charges

SAP Part Number	SAP Description
LOTCHG-VTFSMNETMLD	LOT CHARGE FOR VTF SM NET MOLDED
LOTCHG-VTFSMCHPPTN	LOT CHARGE FOR VTF SM CHIP PTN SERIES

LOT CHARGE	RESISTOR STYLE
7 DIGITS	8 to 11 digits
LOTCHG-	VTFSMNETMLD = VTF SM NET MOLDED VTFSMNETHRM = VTF SM NET HERMETIC VTFSMNETWRP = VTF SM NET WRAP VTFSMCHPMIL = VTF SM CHIP MILITARY VTFSMCHPP = VTF SM CHIP P SERIES VTFSMCHPPTN = VTF SM CHIP PTN SERIES VTFSMCHPL = VTF SM CHIP L SERIES VTFSMCHPT = VTF SM CHIP T SERIES VTFSMCHPFC = VTF SM CHIP FC SERIES VTFSMCHPM = VTF SM CHIP M SERIES VTFTHNET = VTF THROUGH HOLE NET VTFQCKNET = VTF QUICK NET VTFSMCHPMED = VTF SM CHIP MEDM SERIES VTFGRBSMHRM = VTF SMHERMETIC GRP B VTFQCKCHIP = VTF QUICK CHIP

LR

Commodity Code 8533210030

SAP Part Number

LR2512MR250FSTF

SAP Description

LR2512 300ppm 0.25 1% B TF e1

MODEL	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
LR = Low value wraparound chip resistor Thick Film	2512	M = 300ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 0R10 = 0.1ohms 1R60 = 1.6ohms	F = 1%	S = Lead Free (e1) RoHS compliant	TAPE AND REEL TF = Full Reel 2000 only

M- (Document number 60031)

Commodity Code 8533210030

SAP Part Number

M-1206K5001GBT1

M-1206M1002KST1

SAP Description

M-1206 100ppm 5K 2% B T1

M-1206 300ppm 10K 10% S T1 e3

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 up to 7 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
M- = High Rel Cermet Thick film wraparound	0402 0502 0504 0505 0603 0805 1005 1010 1206 1505 2010 2208 2512	K = 100ppm/c M = 300ppm/c X = Zero Ohm Jumper	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 1002 = 10K ohms 10R0 = 10 Ohms 0000 = 0 Ohms Special values with more than 4 significant figures ,use a R for value below 1K ohm and a K for values greater than 1K ohm to signify a decimal point 982R6 = 982.6ohms 1533K41 = 153.41Kohms	F = 1% G = 2% J = 5% K = 10% N = not trimmed	B = Wraparound Tin/lead plated solder S = Wraparound Lead (Pb)- free plated solder(e3) RoHS compliant P = Wraparound Palladium Silver G = Gold Wraparound (e4)- Lead free RoHS compliant	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

M-, T-, L-, P-, PTN- Custom

Commodity Code 8533210030

SAP Part Number

M-2xx-xxxWS

L-xxx-xxxWS

T-1xx-xxxWS

P-1xx-xxxWS

PTN-1xx-xxxWS

PNM-1xx-xxxWS

PLT-1xx-xxxWS

PLTU-1xx-xxxWS

SAP Description

M- Custom 2xx-xxx WS

L- Custom xxx-xxx WS

T- Custom 1xx-xxx WS

P- Custom 1xx-xxx WS

PTN- Custom 1xx-xxx WS

PNM- Custom 1xx-xxx WS

PLT- Custom 1xx-xxx WS

PLTU- Custom 1xx-xxx WS

Note: some customs will be lead free, those will have an e1 at the end in the description

Model	Custom part number	Packaging
2 or 4 DIGITS	7 , 9 ,11, or 14 DIGITS	2 DIGITS
M- T- P- PTN- PNM- PLT- PLTU- FC- PTN	xxx-xxx or xxx-xxx-x or xxx-xxx-xe1 (Lead free version) xxx-xxx-xxx xxx-xxx-xxxx xxx-xxxxxxxxxx	BS = BULK 100 Min 1 Mult TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WS = WAFFLE 100 Min 1 Mult WP = 100 Min/ 1Mult (Package unit single lot date code) TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult

L-	Xxx-xxx or xxx-xxx-x or Xxx-xxx-xe1 (Lead free version) or Xxx-xxxxxxxxxx	W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)
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M55342 or D55342 (Document number 60018)

Commodity Code 8533210030

SAP Part Number

M55342E06B1C00RTS

D55342E07B100BRTS

SAP Description

M55342 25ppm 0705 1M 0.1% R TS

D55342 25ppm 1206 100K 0.1% R TS

Model	TCR Characteristics	Case Size	Termination	Ohmic Value	Failure Rate	Packaging	Vendor
6 DIGITS	1 DIGIT	2 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	2 DIGITS	1 DIGIT
M55342 Or D55342 (/ 07 size only)	E = 25ppm >100ohms H = 50ppm K = 100ppm (1) L = 200ppm (1) M = 300ppm (1)	01 = 0502 02 = 0505 03 = 1005 04 = 1505 05 = 2208 06 = 0705 07 = 1206 08 = 2010 09 = 2512 10 = 1010 11 = 0402 12 = 0603	B = solderable	Three digits and a letter. Letter identifies tolerance, acts as multiplier and decimal locator TOLERANCE 0.1% 0.25% 0.5% x1 A R W x1k B U Y x1M C V Z TOLERANCE 1% 2% 5% 10% x1 D G J M x1k E H K N x1M F T L P	M = 1% per 1000 hrs P = 0.1% per 1000 hrs R = 0.01% Per 1000 hrs S = 0.001% Per 1000 hrs T = Space level(2) U = 0.01 % per 1000 h(3) V = 0.001 % per 1000 h (3) C = non ER version	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min/ 1 Mult W0= WAFFLE 100 PC MIN /100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) WT – 100 Min/ 1Mult, Thales Alena special waffle pack TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel	V= Vishay Thin Film (1) M= Part marked (4) 4 = Tantalum nitride Film (5)

VISHAY

SAP

						TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date date 5T = 500 Min/500 Mult (Single lot date code, 500 max on reel)	
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- 1) Note For K and M $TCR \geq 1\%$ tolerance add a V at end of part number to specify Vishay Thin film vs Dale Thick Film eg:
D55342M0710E0RTSV (end vendor code is not required on K, L and M TCR's with $<1\%$ tolerance, or on any parts with E or H TCR's)
- 2) Note "T" Failure rate level for 01, 02,03,04,,05,06.07,08,09,10,11.12 case sizes
- 3) Failure Rate U and V require Group A and B testing on a Production Lot Basis.
- 4) Marked parts. Not available in case sizes 01, 02, 11, and 12 due to chip size.
- 5) "4" Tantalum Nitride option currently unavailable

MEDM-

Commodity Code 8533210030

SAP Part Number

MEDM-0502K200FBT1

MEDM-0504M2002FBT1

MEDM-1206LOR01JBT1

SAP Description

MEDM-0502 100ppm 200 1% B T1

MEDM-0504 300ppm 20K 1% B T1

MEDM-1206 300ppm 0.01 5% B T1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 up to 7 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
MEDM- = High Rel Medical Thick Film Wraparound chip resistor	0402 0502 0504 0505 0805 1005 1010 1206 2010	K = +- 100ppm/c M = +-300ppm/c L = +- customer defined X = Zero Ohm Jumper	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 1002 = 10K ohms 1005 = 10Meg ohms	F = 1% G = 2% J = 5% K = 10% N= Not Trimmed	B = Solderable	WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

MORN or MORNT (Document number 60129)

Commodity Code

SAP Part NumberMORNA1002AUF
MORNTA1003ZTS**SAP Description**MORNA 10K 0.1%abs 0.05%ratio UF
MORNTA 100K 0.1%abs 0.025%ratio TS e3

Model	Schematic	Resistance	Tolerance and Ratio Tolerance		Packaging
4 or 5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT		2 DIGITS
MORN Tin /Lead MORNT Lead free (e3)	A = 4 isolated equal resistors	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K 4991 = 4.99K	Abs Tol. *Q= 0.05% *Z = 0.1% A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.01% 0.025% 0.05% 0.1% 0.1% 0.1% 0.5%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult date code) UF = TUBED

MP or MPT (Document number 60092)

Commodity Code 8533210020

SAP Part Number

MP31002AWS

MPT41003BT1

SAP Description

MP3 5K 5K 0.1%abs 0.05%ratio WS

MPT4 50K 50K 0.1%abs 0.1%ratio T1 e3

Model	Leads	Resistance	Tolerance and Ratio Tolerance		Packaging
2 or 3 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT		2 DIGIT
MP Tin /Lead MPT Lead Free (e3)	3 4	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. When like values are required use total resistance. Example 1002 = 10K (5K/5K) 1003 = 100K (50K/50K)	Abs. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T1 = 1000 Min 1000 Mult

MP or MPT CUSTOM

Commodity Code 8533210020

SAP Part Number

MP1xx-xxxWS

MPT1xx-xxx-xT1

SAP Description

MP Custom 1xx-xxx WS

MPT Custom 1xx-xxx-x T1 e3

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGITS
MP Tin Lead MPT Lead Free (e3)	1xx-xxx 1xx-xxx-x	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T1 = 1000 Min 1000 Mult

MPH or MPHT (Document number 60013)

Commodity Code 8533210020

SAP Part Number

MPHK1003BUF

MPHTK1003AUF

SAP Description

MPH 100ppm 100K 0.1%abs 0.1%ratio UF

MPHT 100ppm 100K 0.1%abs 0.05%rat UF e1

Model	TCR characteristic	Resistance	Tolerance and Ratio		Packaging
3 or 4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT		2 DIGITS
MPH Tin lead MPHT Lead free (e1)	E = 25ppm/c H = 50ppm/c K = 100ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 1K = 1001 10K = 1002	Abs. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code) BOXED B1 = 1 Min/1Mult (1 pc per box) BI = 1Min/1Mult (Single Lot Date Code, 1 pc per Box)

MPH or MPHT CUSTOM

Commodity Code 8533210020

SAP Part Number

MPH1xx-xxxUF

MPHT1xx-xxx-xUF

SAP Description

MPH Custom 1xx-xxx UF

MPHT Custom 1xx-xxx-x UF e1

Model	Custom part number	Packaging
3 or 4 DIGITS	7 , 9, 10, or 12 DIGITS	2 or 3 DIGITS
MPH Tin lead MPHT Lead free (e1)	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xx or 1xx-xxx-xxxx	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date BOXED B1 = 1 Min/1Mult (1 pc per box) BI = 1Min/1Mult (Single Lot Date Code, 1 pc per Box) OTHER DPA = Parts for DPA samples

MPM or MPMT (Document number 60001)

Commodity Code 8533210020

SAP Part Number

MPM1002AWS

MPMT1003AT1

MPMT25012501QT1

SAP Description

MPM 5K 5K 0.1%abs 0.05%ratio WS

MPMT 50K 50K 0.1%abs 0.05%ratio T1 e3

MPMT 2.5K 2.5K 0.05%abs 0.01%ratio T1 e3

Model	Resistance	Tolerance and Ratio		Packaging
3 or 4 DIGITS	4 or 8 DIGITS	1 DIGIT		2 DIGITS
MPM Tin /Lead MPMT Lead Free (e3)	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. When like values are required use total resistance. When dual values are required list both values. Example 1002 = 10K (5K/5K) 1003 = 100K (50K/50K) 10011002 = 1K/10K divider	Abs. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1% *Z = 0.1% *Q = 0.05%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5% 0.025% 0.01%	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

MPM or MPMT CUSTOM

Commodity Code 8533210020

SAP Part Number

MPM1xx-xxxWS

MPMT1xx-xxx-xT1

SAP Description

MPM Custom 1xx-xxx WS

MPMT Custom 1xx-xxx-x T1 e3

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGITS
MPM Tin Lead MPMT Lead Free (e3)	1xx-xxx 1xx-xxx-x	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

MPMA (Document # 60013) Automotive Grade

Commodity Code

SAP Part Number**SAP Description**

MPMA1002ATS MPMA 5K 5K 0.1% abs 0.05% ratio TS e4
 MPMA1003AT1 MPMA 50K 50K 0.1% abs 0.05% ratio T1 e4
 MPMA10015001AT1 MPMA 5K 1K 0.1% abs 0.05% ratio T1 e4

Model	Resistance	Tolerance and Ratio Tolerance		Packaging
3 or 4 DIGITS	4 or 8 DIGITS	1 DIGIT		2 DIGITS
MPMA Lead Free (e4)	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. When like values are required use total resistance. When dual values are required list both values. Example: 1002 = 10K (5K/5K) 1003 = 100K (50K/50K) 10011002 = 1K/10K divider	Abs Tol. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	TAPE AND REEL T1 = 1000 Min 1000 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TP = 100 Min/ 1Mult (Package unit single lot date code) T5 = 500 min / 500 mult

MPMA CUSTOM

Commodity Code

SAP Part Number

MPMA1xx-xxxT1

SAP Description

MPMA Custom 1xx-xxx T1 e4

Model	Custom part number	Packaging
4 DIGITS	6 DIGITS	2 DIGITS
MPMA Lead Free (e4)	1xx-xxx	TAPE AND REEL T1 = 1000 Min 1000 Mult TF = Full Reel 4000 TS = 100 Min 1 Mult TP = 100 Min/ 1Mult (Package unit single lot date code) T5 = 500 min / 500 mult

NOMC or NOMCT (Document number 60007)

Commodity Code 8533210010

SAP Part Number

NOMC16031002BUF

NOMCT14031003ZT1

NOMC16011002BUF

NOMCT14012002ZT1

SAP Description

NOMC 16pin 10K 0.1%abs 0.1%ratio UF

NOMCT 14pin 100K 0.1%abs 0.025%rat T1 e3

NOMC 16pin 10K 0.1%abs 0.1%ratio UF

NOMCT 14pin 20K 0.1%abs 0.025%rat T1 e3

Model	Pins	Schematic	Resistance	Tolerance and Ratio Tolerance	Packaging
4 or 5 DIGITS	2 DIGITS	2 DIGITS	4 DIGITS	1 DIGIT	2 DIGITS
NOMC Tin Lead NOMCT Lead Free (e3)	14 16	03 = 7 or 8 Isolated equal value resistors 01= 13 or 15 bussed equal resistors (available in 10k and 20k only as a standard part)	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K	Abs. Ratio *A = 0.1% 0.05% B = 0.1% 0.1% C = 0.25% 0.1% D = 0.5% 0.1% F = 1% 0.5% *Z= 0.1% 0.025% *Tol. Available 1K and up	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

NOMC or NOMCT CUSTOM

Commodity Code 8533210010

SAP Part Number

NOMC1xx-xxxT1

NOMCT1xx-xxx-xUF

SAP Description

NOMC Custom 1xx-xxx T1

NOMCT Custom 1xx-xxx-x UF e3

Model	Custom part number	Packaging
4 or 5 DIGITS	7 , 9 or 11 DIGITS	2 DIGITS
NOMC Tin lead NOMCT Lead Free (e3)	1xx-xxx or 1xx-xxx-x Or 1xx-xxxxxxx	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date xx = custom number extension

NOMCA (Document number 60017)

Commodity Code

SAP Part Number

NOMCA16031002BUF

SAP Description

NOMC 16pin 10K 0.1%abs 0.1%ratio UF

Model	Pins	Schematic	Resistance	Tolerance and Ratio Tolerance		Packaging
5 DIGITS	2 DIGITS	2 DIGITS	4 DIGITS	1 DIGIT		2 DIGITS
NOMCA	14 16	03 = 7 or 8 Isolated equal value resistors	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K	Abs Tol. *A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1% *Tol. Available 1K and up	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult UF = TUBED

ORN or ORNT (Document number 60005)

Commodity Code 8533210010

SAP Part Number

ORNA1002AUF

ORNTA1003ZTS

SAP Description

ORNA 10K 0.1%abs 0.05%ratio UF

ORNTA 100K 0.1%abs 0.025%ratio TS e3

Model	Schematic	Resistance	Tolerance and Ratio Tolerance		Packaging
3 or 4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT		2 DIGITS
ORN Tin /Lead ORNT Lead free (e3)	A = 4 isolated equal resistors	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K 4991 = 4.99K	Abs. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1% *Q = 0.05% *Z = 0.1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5% 0.01% 0.025%	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

ORN or ORNT CUSTOM

Commodity Code 8533210010

SAP Part Number

ORN1xx-xxxUF

ORNT1xx-xxx-xT1

SAP Description

ORN Custom 1xx-xxx UF

ORNT Custom 1xx-xxx-x T1 e3

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGITS
ORN Tin lead ORNT Lead free (e3)	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xxxx	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

ORNA or ORNTA Divider (Document number 60006)

Commodity Code 8533210010

SAP Part Number

ORNA5-1UF

ORNTA100-1UF

SAP Description

ORNA 10K 2K 0.1%abs 0.05%ratio UF

ORNTA 100K 1K 0.1%abs 0.05%ratio UF e3

Model	Divider Ratio	Packaging
4 or 5 DIGITS	3, 4 or 5 DIGITS	2 DIGITS
ORNA Tin /Lead ORNTA Lead free (e3)	2-1 = 10K, 5K 5-1 = 10K, 2K 10-1 = 10K,1K 20-1 = 20K, 1K 25-1 = 25K,1K 50-1 = 50K,1K 100-1 = 100K,1K	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date

ORNV or ORNTV (Document # 60112)

Commodity Code

SAP Part Number

ORNVxxxxxxxxUF

ORNTVxxxxxxxxT1

SAP Description

ORNV xxxx(R1) xxxx(Ref,R2) UF(Pack Code)

ORNTV xxxx(R1) xxxx(Ref,R2) T1(Pack Code)

Model	Resistance (R1)	Resistance (Reference,R2)	Packaging
4 or 5 DIGITS	4 DIGITS	4 DIGITS	2 DIGITS
ORNV Tin lead ORNTV Lead free	XXXX First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 5001 = 5K ohms	XXXX First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 1002 = 10K ohms	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult UF = TUBED

OSOP or OSOPT (Document number 60002)

Commodity Code 8533210010

SAP Part Number

OSOPA1002BUF

OSOPTA1003AT1

SAP Description

OSOPA 10K 0.1%abs 0.1%ratio UF

OSOPTA 100K 0.1%abs 0.05%ratio T1 e3

Model	Schematic	Resistance	Tolerance and Ratio Tolerance	Packaging
4 or 5 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	2 DIGITS
OSOP Tin Lead OSOPT Lead Free (e3)	A = 20 pin 10 isolated resistors B = 16 pin 8 isolated resistors C = 24 pin 12 isolated resistors D = 20 pin 19 resistors pin 20 common E = 16 pin 15 resistors pin 16 common F = 24 pin 23 resistors pin 24 common	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K	Abs. Ratio *A = 0.1% 0.05% B = 0.1% 0.1% C = 0.25% 0.1% D = 0.5% 0.1% F = 1% 0.5% * Z = 0.1 % 0.025% *Tol. Available 1k ohm and up	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date

OSOP or OSOPT CUSTOM

Commodity Code 8533210010

SAP Part Number

OSOP1xx-xxxUF

OSOPT1xx-xxx-xT1

SAP Description

OSOP Custom 1xx-xxx UF

OSOPT Custom 1xx-xxx-x T1 e3

Model	Custom part number	Packaging
4 or 5 DIGITS	7 or 9 DIGITS	2 DIGITS
OSOP Tin lead OSOPT Lead free (e3)	1xx-xxx or 1xx-xxx-x	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2500 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date

P- (Document number 60023)

Commodity Code 8533210030

SAP Part Number

P-1206E1002BBTS

P-1206E1002BSTS

P-1206Y10K49BBTS

SAP Description

P-1206 25ppm 10K 0.1% B TS

P-1206 25ppm 10K 0.1% S TS e1

P-1206 10ppm 10.49K 0.1% B TS

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 up to 7 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
P-	0402 0502 0505 0603 0805 1005 1010 1206 1505 2208 2010 2512	Y = 10ppm/C D = 15ppm/C E = 25ppm/C H = 50ppm/C K = 100ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R," designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms Special values with more than 4 significant figures ,use a R for value below 1K ohm and a K for values greater than 1K ohm to signify a decimal point 982R6 = 982.6ohms 1532R41 = 1532.41ohms	Q = 0.02% A = 0.05% B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	B = Solderable G = Epoxy/Solderable (e4)- Lead free RoHS compliant S = Lead Free (e1) (e4)- Lead free RoHS compliant I = Au/Ni (IBM) (e4)- Lead free RoHS compliant	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PAT (Document number 60024)

Commodity Code 8533210030

SAP Part Number

PAT1206E1001BSTS

PAT1206E1002BST1

SAP Description

PAT1206 25ppm 1K 0.1% S TS e1

PAT1206 25ppm 10K 0.1% S T1 e1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
3 DIGITS	4 DIGITS	1 DIGIT	4 up to 6 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PAT Lead Free (e1)	0402 0603 0805 1206 1505 2208 2010 2512	E = 25ppm/C H = 50ppm/C K = 100ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	L=0.01% A=0.05% B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	S = Lead Free (e1) RoHS compliant	TAPE AND REEL T1 = 1000 Min 1000 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PATT

Commodity Code 8533210030

SAP Part Number

PATT0603E1001BGTS

SAP Description

PATT0603 25ppm 1K 0.1% G TS e1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 up to 5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PATT Lead Free (e1)	0402 0603 0805 1206 2010 2512	E = 25ppm/C H = 50ppm/C K = 100ppm/C L = 200ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	G = Gold Wraparound, Wraparound Gold over Nickel Barrier (10 micro inches)	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

Spec Constraints:

Resistance	TCR (ppm/°c)	Tolerance (%)
10Ω – 1M	25, 50, 100, 200	0.1, 0.5, 1, 2, 5
5Ω – 10Ω	100, 200	1, 2, 5

1Ω – 5Ω	200	1, 2, 5
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PCAN (Document number 60125)

Commodity Code 8533210030

SAP Part Number

PCAN1206E1000BBTS

PCAN2512E50R0BSTS

SAP Description

PCAN1206 25ppm 100Ω 0.1% B TS

PCAN2512 25ppm 50Ω 0.1% S TS

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PCAN	0603 0805 1206 2512	E = 25ppm/C H = 50ppm/C K = 100ppm/C ⁽¹⁾	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms	B = 0.1% ⁽²⁾ C = 0.25% D = 0.5% F = 1% G = 2% J = 5%	B = Wraparound Sn/Pb solder w/ nickel barrier S = Wraparound Lead (Pb)-free solder (e1) RoHS compliant G = Wraparound Au over Ni (gold) termination epoxy bondable RoHS-compliant - e4	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 pc min waffle/100 mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

Notes

(1) Less than 10 Ohm.

(2) Available on 10 Ohm and higher.

PCNM (Document number 60130)

Commodity Code 8533210030

SAP Part Number

PCNM1206E1000BBTS

PCNM2512E50R0BSTS

SAP Description

PCNM1206 25ppm 100Ω 0.1% B TS

PCNM2512 25ppm 50Ω 0.1% S TS

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PCNM	0603 0805 1206 2512 **0603/0805 not released yet	E = 25ppm/C H = 50ppm/C K = 100ppm/C ⁽¹⁾	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms	B = 0.1% ⁽²⁾ C = 0.25% D = 0.5% F = 1% ⁽¹⁾ G = 2% J = 5%	B = Wraparound Sn/Pb solder w/ nickel barrier S = Wraparound Lead (Pb)-free solder (e1) RoHS compliant G = Wraparound Au over Ni (gold) termination epoxy bondable RoHS-compliant - e4	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 pc min waffle/100 mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

Notes

(1) Less than 10 Ohm. 100ppm/c TCR and 1% Tolerance best

(2) Available on 10 Ohm and higher.

PHP (Document number 60076)

Commodity Code 8533210030

SAP Part Number

PHP01206E1001BBTS

PHP02512E1002BST1

SAP Description

PHP01206 25ppm 1K 0.1% B TS

PHP02512 25ppm 10K 0.1% S T1 e1

Model	Substrates	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
3 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PHP	0 = Alumina	0603 0805 1206 2512	E = 25ppm/C H = 50ppm/C K = 100ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	B = Solderable S = Lead Free (e1) RoHS compliant	BS = BULK 100 min., 1 mult WS = WAFFLE 100 min., 1 mult TAPE AND REEL T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 min., 500 mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PHPA (Document number TBD)

Commodity Code 8533210030

SAP Part Number

PHPA1206E1001BSTS

PHPA2512E1002BST1

SAP Description

PHPA1206 25ppm 1K 0.1% B TS e1

PHPA2512 25ppm 10K 0.1% S T1 e1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PHPA	1206 2512	E = 25ppm/C H = 50ppm/C K = 100ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	B = 0.1% D = 0.5% F = 1% G = 2% J = 5%	S = Lead Free (e1) RoHS compliant	BS = BULK 100 min., 1 mult WS = WAFFLE 100 min., 1 mult TAPE AND REEL T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 min., 500 mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PLT (Document number 60030)

Commodity Code 8533210030

SAP Part Number

PLT0603Z1001QBTS

SAP Description

PLT0603 5ppm 1K 0.02% B TS

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
3 DIGITS	4 DIGITS	1 DIGIT	4 up to 7 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PLT	0603 0805 1206	Z= 5ppm/degC	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 1000 = 100ohms 1001 = 1K ohms Special values with more than 4 significant figures ,use a R for value below 1K ohm and a K for values greater than 1K ohm to signify a decimal point 982R6 = 982.6ohms 1532R41 = 1532.41ohms	L = 0.01% Q = 0.02% A = 0.05% B = 0.1% D = 0. 5% F = 1%	B = Solderable S = Lead Free (e1) RoHS compliant	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PLTT (Document number 60082)

Commodity Code 8533210030

SAP Part Number
PLTT0805Z1000QGT1

SAP Description
PLTT 0805 5ppm 100Ω 0.02% G T1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PLTT	0603 0805 1206 2010 2512	Z = 5ppm/C Y = 10PPM/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms	Q = 0.02% A = 0.05% B = 0.1% D = 0.5% F = 1% G = 2%	G = Wraparound Gold over Nickel Barrier (10 micro inches)	WS = WAFFLE WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T5 = 500 Min, 500 Mult TF = Full Reel TS = 100 min, 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PLTT Custom

Commodity Code 8533210030

SAP Part Number

PLTTxxx-xxx-xTS

SAP Description

PLTT Custom xxx-xxx TS

Model	Custom part number	Packaging
4 DIGITS	9 DIGITS	2 DIGITS
PLTT	xxx-xxx-x	WS = WAFFLE WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T5 = 500 Min, 500 Mult TF = Full Reel TS = 100 min, 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PLTU (Document number 60131)

Commodity Code 8533210030

SAP Part Number
PLTU0603U1001QBTS

SAP Description
PLTU0603 2ppm 1K 0.02% B TS

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 up to 5 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PLTU	0603 0805 1206 2010 2512	U= 2ppm/degC	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 1000 = 100ohms 1001 = 1K ohms Use R to indicate decimal point for value below 1K ohm (max 5 digits) 982R6 = 982.6 ohms Values above 1k ohm (max 4 digits) 1532 = 15.3k ohms 1003 = 100k ohms	L = 0.01% Q = 0.02% A = 0.05% B = 0.1% D = 0.5% F = 1%	B = Solderable S = Lead Free (e1) RoHS compliant	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

L and Q tolerances are available only for resistance values ≥ 250 Ohms

PNM (Document number 60057)

Commodity Code 8533210030

SAP Part Number

PNM1206E1002BBT1

PNM1206E1002BST1

SAP Description

PNM1206 25ppm 10K 0.1% B T1

PNM1206 25ppm 10K 0.1% S T1 e1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
3 DIGITS	4 DIGITS	1 DIGIT	4 up to 6 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PNM	0402 0502 0505 0603 0805 1005 1010 1206 1505 2208 2010 2512	E = 25ppm/C H = 50ppm/C K = 100ppm/C X = Zero Ohm Jumper <50 ohms + - _100PPM/c Best	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms Special values with more than 4 significant figures ,use a R for value below 1K ohm and a K for values greater than 1K ohm to signify a decimal point 982R6 = 982.6ohms 1532R4 = 1532.4ohms	B = 0.1% D = 0.5% F = 1% G = 2% J = 5% N = not trimmed	B = Solderable S = Lead Free (e1) RoHS compliant	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

PR (Document number 53039)

Commodity Code 8533210020

SAP Part Number

PR100A41002BBGTS

PR135B61232CPGTS

SAP Description

PR100 Iso 4 10K 0.1%abs 0.1%ratio G T5 e4

PR135 Bus 6 12.3K .25%abs.02%rat G T5 e4

Model	Schematics	Number of Resistors	Resistance	Absolute Tolerance	Ratio Tolerance	Termination	Packaging
5 DIGITS	1 DIGIT	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS
PR100 PR135 PR182	A = isolated resistors	2 3 4 5 6 7 8	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 10ohms = 10R0 12.5ohms = 12R5 100ohms = 1000 1000ohms = 1001	B = 0.1% C = 0.25% D = 0.5% F = 1% G = 2% J = 5% K = 10%	Q = 0.01%* P = 0.02% * W = 0.05% ** B = 0.1% C = 0.25% D = 0.5% F = 1% * $\geq 1K$ ohms 4R only ** > 100 ohms up to 8R	G = Waparound Gold over Nickel termination (e4)- Lead free RoHS compliant	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

PR CUSTOM

Commodity Code 8533210020

SAP Part Number

PR1xx-xxxTS

SAP Description

PR Custom 1xx-xxx TS

Model	Custom part number	Packaging
2 or 3	7 or 9 DIGITS	2 DIGITS
PR Tin lead PRT Leadfree	1xx-xxx or 1xx-xxx-x	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

PTN (Document number 60026)

Commodity Code 8533210030

SAP Part Number

PTN1206E1002BBT1

PTN1206E1002BST1

SAP Description

PTN1206 25ppm 10K 0.1% B T1

PTN1206 25ppm 10K 0.1% S T1 e1

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
3 DIGITS	4 DIGITS	1 DIGIT	4 up to 6 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
PTN	0402 0502 0505 0603 0805 1005 1010 1206 1505 2208 2010 2512	Y = 10ppm/C ⁽¹⁾ D = 15ppm/C ⁽¹⁾ E = 25ppm/C H = 50ppm/C K = 100ppm/C	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 10R0 = 10ohms 1000 = 100ohms 1001 = 1K ohms Special values with more than 4 significant figures ,use a R for value below 1K ohm and a K for values greater than 1K ohm to signify a decimal point 982R6 = 982.6ohms 1532R4 = 1532.4ohms	A = $\pm 0.05\%$ ⁽²⁾ B = 0.1% D = 0.5% F = 1% G = 2% H = 3% J = 5%	B = Solderable G = Epoxy/Solderable (e4)- Lead free RoHS compliant S = Lead Free (e1) RoHS compliant I = Au/Ni (IBM) (e4)- Lead free RoHS compliant	BS = BULK 100 Min 1 Mult W0= 100 PC MIN WAFFLE/100 MULT WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

VISHAY

SAP

1) Y & D TCR available only $\geq 1\text{k}\Omega$

QFN- Custom (Document number 60015)

Commodity Code 8533210010

SAP Part Number

QFN-1xx-xxxUF

SAP Description

QFN-Custom 1xx-xxx UF

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
QFN- Lead free (e3)	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xxxx	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 3000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

VISHAY
QUICKNET CUSTOM

SAP

SAP Part Number

QNETSIP1xx-xxxQ

SAP Description

QNETSIP Custom 1xx-xxxQ

Model	Custom part number
7 DIGITS	8 or 10 DIGITS
QNETSIP QNETDIP QNETCSO QNETLCC QNETECL QNETFLP QNETOTR QNETCSOT	1xx-xxxQ or 1xx-xxx-xQ

SJM-

Commodity Code 8533210030

SAP Part Number

SJM-0502O1003FPWS

SJM-0502T2005FPWS

SJM-0502T5005FPWS

SAP Description

SJM-0502 400ppm 100K 1% P WS

SJM-0502 800PPM 20M 1% P WS

SJM-0502 800PPM 50M 1% P WS

Model	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
4 DIGITS	4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
SJM- = High Rel Medical Thick Film Wraparound chip resistor SJT- = High Rel Medical Thick Film Topside chip resistor SJMH = High Rel Thick Film Wraparound Hi Voltage	0502 0504 0403 0402 1003	O = +- 400ppm/c T = +- 800ppm/c S = +- 200ppm/c X= untrimmed	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example : 1002 = 10K ohms 1005 = 10Meg ohms	F = 1% G = 2% J = 5% K = 10% N = not trimmed	P= Palladium Silver- (e4)- Lead free RoHS compliant E = Gold (10 micron min) G = Gold Term over Nickel B = Wraparound Tin/lead plated solder	WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

T- (Document number 60031)

Commodity Code 8533210030

SAP Part Number

T-1206M1R00GBTS

T-1206M0R10KSTS

SAP Description

T-1206 300ppm 1 2% B TS

T-1206 300ppm .1 10% S TS e1

MODEL	Case Size	TCR Characteristics	Ohmic Value	Tolerance	Termination	Packaging
2 DIGITS	4 DIGITS	1 DIGIT	4 up to 7 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS
T- = Topside contacts Low value <10 ohms	0505 0805 1005 1020 1206 1505 2010 2512	M = 300ppm/c N = 350ppm/c O = 400ppm/c P = 500ppm/c	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 0R10 = 0.1ohms 1R60 = 1.6ohms Special values with more than 4 significant figures ,use a R for value below 1K ohm and a K for values greater than 1K ohm to signify a decimal point 982R6 = 982.6ohms 1532R41 = 1532.41ohms	F = 1% G = 2% H = 3% J = 5% K = 10% L = 20%	B = Solderable G = Epoxy/Solderable (e4)- Lead free RoHS compliant W = Wire bondable (e4)- Lead free RoHS compliant S = Lead Free (e1) RoHS compliant	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code)

TDP or TDPT (Document number 60045)

Commodity Code 8533210060

SAP Part Number

TDP14031002BUF

TDPT16031003AUF

SAP Description

TDP 14pin03 10K 0.1%abs 0.1%ratio UF

TDPT 16pin03100K 0.1%abs 0.05%ratio UFe3

Model	Pin Count	Schematics	Resistance	Tolerance and Ratio	Packaging
3 or 4 DIGITS	2 DIGITS	2 DIGITS	4 DIGITS	1 DIGIT	2 DIGITS
TDP Tin Lead TDPT Lead free (e3)	14 16	01 = 13 or 15 resistors with 1 common pin 03 = 7 or 8 isolated resistors	First 3 digits are significant figures. Last digit specifies the number of zeros to follow. e.g 1001 = 1K 1002 = 10K	Absolute Ratio *A = 0.1% 0.05% B = 0.1% 0.1% C = 0.25% 0.1% D = 0.5% 0.1% F = 1% 0.5% *Tolerance available on 1Kohm and up only R1 is reference resistors	UF = Tubed UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

TDP or TDPT CUSTOM

Commodity Code 8533210060

SAP Part Number

TDP1xx-xxxUF

TDPT1xx-xxx-xUF

SAP Description

TDP Custom 1xx-xxx UF

TDPT Custom 1xx-xxx-x UF e3

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGITS
TDP Tin Lead or TDPT Lead free (e3)	1xx-xxx or 1xx-xxx-x	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date code)

TOMC or TOMCT (Document number 60008)

Commodity Code 8533210010

SAP Part Number

TOMC16031002BUF

TOMCT16011003ZT1

SAP Description

TOMC 16p Iso 10K 0.1%abs 0.1%rat UF

TOMCT 16p bus 100K 0.1%abs 0.025%ratT1e3

Model	Pins	Schematic	Resistance	Tolerance and Ratio Tolerance	Packaging
4 or 5 DIGITS	2 DIGITS	2 DIGITS	4 DIGITS	1 DIGIT	2 DIGITS
TOMC Tin Lead TOMCT Lead Free (e3)	16	01 = 15 bussed equal resistors 03 = 8 Isolated equal value resistors	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example 1002 = 10K 1003 = 100K	Abs. Ratio **A = 0.1% 0.05% B = 0.1% 0.1% C = 0.25% 0.1% D = 0.5% 0.1% F = 1% 0.5% *Z= 0.1% 0.025% *Tol. Available 1K and up **Tol available 250 and up	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

TOMC or TOMCT CUSTOM

Commodity Code 8533210010

SAP Part Number

TOMC1xx-xxxT1

TOMCT1xx-xxx-xUF

SAP Description

TOMC Custom 1xx-xxx T1

TOMCT Custom 1xx-xxx-x UF e3

Model	Custom part number	Packaging
4 or 5 DIGITS	7 or 9 DIGITS	2 DIGITS
TOMC Tin Lead TOMCT Lead free (e3)	1xx-xxx or 1xx-xxx-x	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 2000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

TSP ,TSPS, TSPL (Document number 60037)

Commodity Code 8533210050

SAP Part Number

TSP601K1002BUF
 TSPS1001K1231CUF
 TSPL1001K1231CUF

SAP Description

TSP 6pin01 K 10K 0.1%abs0.1%ratio UF e4
 TSPS 10pin01 K 1.23K .25%abs.1%rat UF e1
 TSPL 10pin01 K 1.23K .25%abs.1%rat UF

Model	Pin Count	Schematics	TCR Characteristics	Resistance	Tolerance and Ratio	Packaging
3 or 4 DIGITS	1 or 2 DIGITS	2 DIGITS	1 DIGIT	4 DIGITS	1 DIGITS	2 DIGITS
TSP Lead Free (e4) TSPS Lead free (e1) TSPL Tin/Lead	6 8 10	01 = 5, 7, or 9 resistors with Pin 1 common 03 = 3, 4 or 5 isolated resistors 06 = 5, 7 or 9 series connected	*R = 25 H = 50 K = 100 *01 Schematic greater than 250ohms only	First 3 digits are significant figures. Last digit specifies the number of zeros to follow. E.g 1001 = 1K 1002 = 10K	Absolute Ratio *A = 0.1% 0.05% B = 0.1% 0.1% C = 0.25% 0.1% D = 0.5% 0.1% F = 1% 0.5% *Tolerance available on 1K and up only. R1 is reference resistor.	UF = Tubed UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

TSP, TSPS or TSPL CUSTOM (Document number 60036)

Commodity Code 8533210050

SAP Part Number

TSP1xx-xxxUF

TSPS1xx-xxx-xUF

TSPL1xx-xxx-xUF

TSPL1xx-xxxxxxxxxUF

SAP Description

TSP Custom 1xx-xxx UF e4

TSPS Custom 1xx-xxx-x UF e1

TSPL Custom 1xx-xxx-x UF

TSPL Custom 1xx-xxxxxxxxx UF

Model	Part Number	Packaging
3 or 4 DIGITS	7 or 13 DIGITS	2 DIGITS
TSP Lead Free (e4) TSPS Lead free (e1) TSPL Tin/Lead	1xx-xxx or 1xx-xxx-xxxx or 1xx-xxxxxxxxx	UF = Tubed UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

TSP-105-344P

Commodity Code 8533210050

SAP Part Number

TSP105-344210003UF

TSP105-344215R43UF

TSP105-344325503UF

TSP105-344351111UF

TSP105-344420021UF

SAP Description

TSP 105-344 8 pin 100ohm ,1%,C schematic

TSP 105-344 8 Pin 15.4ohm,1%, C schematic

TSP105-344 10 pin 255 ohm,1%, C schematic

TSP105-344 10Pin 3510 ohm,1% G schematic

TSP105-344 10Pin 20K ohm,0.1% G schematic

MODEL	Custom #	Style	Ohmic Value & Tolerance	Schematic	Packaging
3 DIGITS	7 DIGITS	1 Digit	4 DIGITS	1 DIGIT	2 DIGITS
TSP = Low profile molded Single in Line (Tin/lead)	105-344 (custom part number assigned to lockheed Martín 2000945P	1= 6 Pin sip 1% tolerance 2 = 8 pin sip 1% tolerance 3 = 10 pin sip 1% tolerance 4 = 10 pin 0.1% tolerance	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. "R" designates the decimal point. Example : 15R4 = 15.4ohms 1000 = 100ohms 1001 = 1K ohms	1 =C schematic pin one common 3=G schematic Issolted	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date

VR (Document number 60088)

Commodity Code 8533210020

SAP Part Number

VRD330K470MTF

VRC330K470MTF

VRA330K470MTF

SAP Description

VR Tapped 33 10% 47pF 20% TF e3

VR AC Termination 33 10% 47pF 20% TF e3

VR T Filter 33 10% 47pF 20% TF e3

Model	Schematics	Resistance & Tolerance / Capacitance & Tolerance	Packaging
2 DIGITS	1 DIGIT	8 DIGITS	2 DIGITS
VR Lead free (e1)	D = Tapped Filter C = AC Termination A = T Filter	xxxKyyyM First 2 digits are significant figures. Last digit specifies number of zeros to follow eg 330K470M = 33 ohm,10% 47 pFarad 20% K = 10% M = 20%	TAPE AND REEL TF = Full Reel 3000

VSOR (Document number 60003)

Commodity Code 8533210010

SAP Part Number

VSOR1601103JTF

VSOR160343R2FUF

VSOR1605331471GTF

SAP Description

VSOR 16pin Bussed 10K 5% TF e3

VSOR 16pin Isolated 43.2 1% UF e3

VSOR 16pin Dual Term 330 470 2% TF e3

Model	Pin Count	Schematic	Resistance	Tolerance	Packaging
4 DIGITS	2 DIGITS	2 DIGITS	3, 4 or 6 DIGITS	1 DIGIT	2 DIGITS
VSOR Lead free (e3) date code > 2705	16	01 (Bussed) 03 (Isolated)	XXX= $\geq 100R$ & all 1% , 2%, & 5% First 2 digits are significant figures. Last digit specifies number of zeroes to follow XXXX = $< 100R$ 1% First 3 digits are significant figures. Last digit specifies number of zeroes to follow.	F = 1% G = 2% J = 5%	TAPE AND REEL TF = Full Reel 2500 UF = TUBED
	16	05 (Dual Term) 47 (Diff Term)	xxx xxx First 2 digits are significant figures. Last digit specifies number of zeroes.	G = 2% J = 5%	

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VSOR2000S1 (Document number 60009)

Commodity Code 8533210010

SAP Part Number

VSOR2000S1TF

SAP Description

VSOR2000S1 V35 port terminator TF e3

Model	Packaging
10 DIGITS	2 DIGITS
VSOR2000S1	TAPE AND REEL TF = Full Reel 2500 UF = TUBED

VSORC (Document number 60083, 60084, 60085, 60086)

Commodity Code 8533210010

SAP Part Number

VSORC20AB330470TF

SAP Description

VSORC 20AB 33 10% 47pF 20% TF e3

Model	Number of Leads /Schematics	Resistance & Tolerance/ Capacitance & Tolerance	Packaging
5 DIGITS	4 DIGITS	6 DIGITS	2 DIGITS
VSORC	20AB 20AC 20AA 20AD	xxxyyy First 2 digits are significant figures. Last digit specifies number of zeros to follow K = 10% Resistance Tol Fixed M = 20% Capacitance Tol fixed *Note : Special 10% capacitor devcices will be marked with as xxxyyy K : VSORC20AC101391KTF VSORC20AD750251KTF	UF = TUBED TAPE AND REEL TF = Full Reel 1000

VSSR (Document number 60003)

Commodity Code 8533210010

SAP Part Number

VSSR1601103JTF

VSSR160343R2FUF

VSSR2005331471GTF

SAP Description

VSSR 16pin Bussed 10K 5% TF e3

VSSR 16pin Isolated 43.2 1% UF e3

VSSR 20pin Dual Term 330 470 2% TF e3

Model	Pin Count	Schematic	Resistance	Tolerance	Packaging
4 DIGITS	2 DIGITS	2 DIGITS	3, 4 or 6 DIGITS	1 DIGIT	2 DIGITS
VSSR Lead free (e3) date code > 2705	16 20 24	01 (Bussed) 03 (isolated)	XXX= $\geq 100R$ & all 1%, 2% & 5% First 2 digits are significant figures. Last digit specifies number of zeroes to follow XXXX= $< 100R$ 1% First 3 digits are significant figures. Last digit specifies number of zeroes to follow.	F = 1% G = 2% J = 5%	TAPE AND REEL TF = Full Reel 2500 UF = TUBED
	16 20	05 (Dual Term) 47 (Diff Term)	XXX XXX First 2 digits are significant figures. Last digit specifies number of zeroes.	G = 2% J = 5%	

VSSR, VTSR, VSOR, VSSRC, VTSRC, VSORC CUSTOM

Commodity Code 8533210010

SAP Part Number**SAP Description**

VSSR1xx-xxxTF

VSSR Custom 1xx-xxx TF e3

VSSR1xx-xxxTF

VSSR Custom 1xx-xxx TF

VSSRC1xx-xxxTF

VSSRC Custom 1xx-xxx TF e3

VSSRC1xx-xxxTF

VSSRC Custom 1xx-xxx TF

Note: some customs will be Tin/Lead, those will not have an e3 at the end in the description.

Model	Custom part number	Packaging
4 or 5 DIGITS	7 or 12 DIGITS	2 DIGITS
VSSR VTSR VSOR	1xx-xxx or 1xx-xxx-x or 1xx-xxx-xxxx	TAPE AND REEL TF = Full Reel 2500 UF = TUBED
VSSRC VTSRC VSORC	1xx-xxx or 1xx-xxx-x	

VSSRC (Document number 60083, 60084, 60085, 60086)

Commodity Code 8533210010

SAP Part Number

VSSRC20AB330470TF

SAP Description

VSSRC 20AB 33 10% 47pF 20% TF e3

Model	Number of Leads /Schematics	Resistance & Tolerance/ Capacitance & Tolerance	Packaging
5 DIGITS	4 DIGITS	6 DIGITS	2 DIGITS
VSSRC Lead free (e3)	20AB 20AC 20AA 20AD	xxxyyy First 2 digits are significant figures. Last digit specifies number of zeros to follow K = 10% Resistance Tol Fixed M = 20% Capacitance Tol fixed *Note : Special 10% capacitor devices will be marked with as xxxyyy K : VSSRC20AC470470KTF VSSRC20AC500101KTF	UF = TUBED TAPE AND REEL TF = Full Reel 2500

VSSRC1284 (Document number 60077)

Commodity Code 8533210010

SAP Part Number

VSSRC1284-1TF

SAP Description

VSSRC1284–1 IEEE Port Terminator TF e3

Model	Value	Packaging
9 DIGITS	2 DIGITS	2 DIGITS
VSSRC1284 Lead free (e3)	-1 -2 -3 -4 -5 -6 -7	UF = TUBED TAPE AND REEL TF = Full Reel 2500

VSSX1284 (Document # 60089)

Commodity Code

SAP Part Number

VSSX1284ATF

SAP Description

VSSX1284 A(R1,R2,C value) TF(Pack Code)

Model	Packaging
9 DIGITS	2 DIGITS
VSSX1284A Or VSSX1284B	TAPE AND REEL TF = Full Reel UF = Tubed

VTF STANDARD AND CUSTOM (Document number 60038 and 60041)

Commodity Code 8533210050

SAP Part Number

VTF211UF

VTF1004SUF

VTF1xx-xxxUF

SAP Description

VTF Custom 211 UF

VTF Custom 1004 UF e1

VTF Custom 1xx-xxx UF

Model	Part Number	Lead Free	Packaging
3 DIGITS	3 4,7,10,11 DIGITS	0 or 1 DIGIT	2 DIGITS
VTF	xxx or xxxx or xxx-xxx or xxx-xxx-xx or xxx-xxx- xxx Eg: 214 1004 106-329 106-329-10	S = Lead free (e1) None Tin lead	BX, BI, BP not available after Oct 31, 2015. Use UF, UI BX = Boxed BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code) UF= Tubed UI = Tubed, Single Lot Date Code

VTF100-267 (Document number 60044)

Commodity Code 8533210050

SAP Part Number

VTF100-267TUF

VTF100S-267TUF

SAP Description

VTF100-267 0.01%ratio UF

VTF100-267S 0.01%ratio UF e1

Model	Tolerance	Packaging
10 or 11 DIGITS	1 DIGIT	2 DIGITS
VTF100-267 Tin Lead VTF100S-267 Lead Free (e1)	T = 0.01% Ratio Q = 0.025% Ratio A = 0.05% Ratio B = 0.1% Ratio	BX, BI, BP not available after Oct 31, 2015. Use UF, UI BX = Boxed BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code) UF= Tubed UI = Tubed, Single Lot Date Code

VTSR (Document number 60003)

Commodity Code 8533210010

SAP Part Number

VTSR1601103JTF

VTSR160343R2FUF

VTSR2005331471GTF

VTSR2047331221JTF

SAP Description

VTSR 16pin Bussed 10K 5% TF e3

VTSR 16pin Isolated 43.2 1% UF e3

VTSR 20pin Dual Term 330 470 2% TF e3

VTSR 20pin Diff Term 330 220 5% TF e3

Model	Pin Count	Schematic	Resistance	Tolerance	Packaging
4 DIGITS	2 DIGITS	2 DIGITS	3, 4 or 6 DIGITS	1 DIGITS	2 DIGITS
VTSR Lead free (e3) date code > 2705	16 20 24	01 (Bussed) 03 (Isolated)	XXX= $\geq$ 100R & all 1%, 2% & 5% First 2 digits are significant figures. Last digit specifies number of zeroes to follow XXXX= <100R 1% First 3 digits are significant figures. Last digit specifies number of zeroes to follow.	F = 1% G = 2% J = 5%	TAPE AND REEL TF = Full Reel 2500 UF = TUBED
	16 20	05 (Dual Term) 47 (Diff Term)	XXX XXX First 2 digits are significant figures. Last digit specifies number of zeroes.	G = 2% J = 5%	

VTSRC (Document number 60083, 60084, 60085, 60086)

Commodity Code 8533210010

SAP Part Number

VTSRC20AB330470TF

SAP Description

VTSRC 20AB 33 10% 47pF 20% TF e3

Model	Number of Leads /Schematics	Resistance & Tolerance/ Capacitance & Tolerance	Packaging
5 DIGITS	4 DIGITS	6 DIGITS	2 DIGITS
VTSRC Lead free (e3)	20AB 20AC 20AA 20AD	xxxyyy First 2 digits are significant figures. Last digit specifies number of zeros to follow K = 10% Resistance Tol Fixed M = 20% Capacitance Tol fixed	UF = TUBED TAPE AND REEL TF = Full Reel 2500

WOMC or WOMCT CUSTOM (Document number 60010)

Commodity Code 8533210060

SAP Part Number

WOMC1xx-xxxT1

WOMCT1xx-xxx-xT1

SAP Description

WOMC Custom 1xx-xxx T1

WOMCT Custom 1xx-xxx-x T1 e3

Model	Custom part number	Packaging
4 or 5 DIGITS	7 or 9 DIGITS	2 DIGITS
WOMC Tin lead WOMCT Lead Free (e3)	1xx-xxx or 1xx-xxx-x	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 1000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

Zero Ohm DSCC Resistors

Commodity Code 8533210030

SAP Part Number	SAP Description
03002-BTS	03002-B 0505 0 OHM TS
03013-BTS	03013-B 0603 0 OHM TS
03014-BTS	03014-B 0402 0 OHM TS
03015-BTS	03015-B 2010 0 OHM TS
03016-BTS	03016-B 2512 0 OHM TS
87011-BTS	87011-B 1010 0 OHM TS
90047-BTS	90047-B 2208 0 OHM TS
90048-BTS	90048-B 0805 0 OHM TS
90049-BTS	90049-B 1005 0 OHM TS
90092-BTS	90092-B 1505 0 OHM TS
94011-BTS	94011-B 1206 0 OHM TS

MODEL	TERMINATION	PACKAGING
5 DIGITS	1 DIGIT	2 DIGITS
03002 03013 03014 03015 03016 87011 90047 90048 90049 90092 94011	B= TIN/LEAD	TAPE AND REEL T0 = 100 Min 100 Mult T1 = 1000 Min 1000 Mult T3 = 300 Min 300 Mult T5 = 500 Min 500 Mult TF = Full Reel 5000 TS = 100 Min 1 Mult TI = 100 Min/ 1Mult (item single lot date code) TP = 100 Min/ 1Mult (Package unit single lot date code) WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code)

Obsolete Models (for reference only)

MPD or MPDT (Document number 60016)

(Comm Code 8533210020)

SAP Part Number

MPD1002AWS

MPDT1003AT1

MPDT10011003BT1

SAP Description

MPD 5K 5K 0.1%abs 0.05%ratio WS

MPDT 50K 50K 0.1%abs 0.05%ratio T1 e3

MPDT 1K 100K 0.1%abs 0.1%ratio T1 e3

Model	Resistance	Tolerance and Ratio Tolerance		Packaging
3 or 4 DIGITS	4 or 8 DIGITS	1 DIGIT		2 DIGITS
MPD Two resistor Tin /Lead MPDT Two resistor Lead Free (e3)	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. When like values are required use total resistance. When dual values are required list both values Example 1002 = 10K (5K/5K) 1003 = 100K (50K/50K) 10011002 = 1K/10K divider	Abs Tol. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T1 = 1000 Min 1000 Mult

MPD or MPDT CUSTOM

(Comm Code 8533210020)

SAP Part Number

MPD1xx-xxxWS

MPDT1xx-xxx-xT1

SAP Description

MPD Custom 1xx-xxx WS

MPDT Custom 1xx-xxx-x T1 e3

Model	Custom part number	Packaging
3 or 4 DIGITS	7 or 9 DIGITS	2 DIGIT
MPD Tin Lead MPDT Lead Free (e3)	1xx-xxx 1xx-xxx-x	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T1 = 1000 Min 1000 Mult

MPDA or MPDAT (Document number 60016)

(Comm Code 8533210020)

SAP Part Number

MPDAT3002AWS

SAP Description

MPDAT 30K 0.1%abs 0.05%ratio WS e3

Model	Resistance	Tolerance and Ratio Tolerance		Packaging
4 or 5 DIGITS	4 DIGITS	1 DIGIT		2 DIGITS
MPDA Three equal series resistors Tin /Lead MPDAT Three equal series resistors Lead Free (e3)	First 3 digits are significant figures and the last digit specifies the number of zeros to follow. When like values are required use total resistance. Example 3002 = Three 10K ohm resistors	Abs Tol. A = 0.1% B = 0.1% C = 0.25% D = 0.5% F = 1%	Ratio 0.05% 0.1% 0.1% 0.1% 0.5%	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult WI = 100 Min/ 1Mult (item single lot date code) WP = 100 Min/ 1Mult (Package unit single lot date code) TAPE AND REEL T1 = 1000 Min 1000 Mult

MPDA or MPDAT CUSTOM

Commodity Code

SAP Part Number

MPDA1xx-xxxWS

MPDAT1xx-xxxT1

SAP Description

MPDA Custom 1xx-xxx WS

MPDAT Custom 1xx-xxx T1 e3

Model	Custom part number	Packaging
4 or 5 DIGITS	6 DIGITS	2 DIGIT
MPDA Tin Lead MPDAT Lead Free (e3)	1xx-xxx	BS = BULK 100 Min 1 Mult WS = WAFFLE 100 Min 1 Mult TAPE AND REEL T1 = 1000 Min 1000 Mult

PLCC CUSTOM

Commodity Code

SAP Part Number

PLCC1xx-xxxUF

PLCC1xx-xxx-xUF

SAP Description

PLCC Custom 1xx-xxx UF

PLCC Custom 1xx-xxx-x UF e1

Note: most customs will be Tin/Lead, lead-free option will have an e1 at the end in the description

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
PLCC Tin Lead	1xx-xxx or 1xx-xxx-x	UF = TUBED UI = 100 Min/ 1Mult (item single lot date code) UP = 100 Min/ 1Mult (Package unit single lot date)

TOPK Custom

Commodity Code

SAP Part Number

TOPK1xx-xxxBX

SAP Description

TOPK Custom 1xx-xxx BX

Model	Custom part number	Packaging
4 DIGITS	7 or 9 DIGITS	2 DIGITS
TOPK	1xx-xxx or 1xx-xxx-x	BX = Box BI = 100 Min/ 1Mult (item single lot date code) BP = 100 Min/ 1Mult (Package unit single lot date code)