



SAP PART NUMBERING MANUAL

VISHAY DALE TECHNO FILM RESISTORS



VISHAY TECHNO FILM RESISTORS

CDHV

SAP Part Number

CDHVAA20M0J2500GSB

CDHVAA20M0J3000GFT

SAP Description

CDHV2512AA20M0J2500G SB

CDHV2512AA20M0J3000G FT e2

MODEL	TERMINATION STYLE	TERMINATION MATERIAL	RESISTANCE VALUE (R ₁)	ABS. TOL.	RATIO (R ₁ /R ₂)	RATIO TOL.	PACKAGING	
							SOLDER TERMINATION 1 Digit	PACKAGING TYPE 1 Digit
4 Digits	1 Digit	1 Digit	4 Digits	1 Digit	4 Digit	1 Digit		
CDHV (2512- size only)	A = 3-sided, wraparound B = Flip chip (top side only)	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E =Platinum Palladium Gold F = Nickel Barrier	M = Megohms G = Gigohms	F = ±1% G = ±2% H = ±3% J = ±5% K = ±10% M = ±20%	First 3 Digits are significant, and the last Digit specifies the number of zeros to follow Examples: 2500 = 250:1 3000 = 300:1 7000 = 700:1	G = ±2% H = ±3% J = ±5%	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/Ag5, HSD (e2) N = No Solder (all Termination Materials except Nickel barrier) STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, Embossed carrier tape, 7" reel, full reel quantity 1 = Reel pack (std taping except 1,000pcs/reel) 5 = Reel pack (std taping except 500pcs/reel) T = Reel pack (std taping except 250pc min/reel) W = Tray pack NON-STANDARD CODES R = Reel pack, ESD (std taping except 250pc min/reel) M = Reel pack (std taping except 250pcs/reel) 2 = Reel pack (std taping except 2,000pc/reel)



VISHAY TECHNO FILM RESISTORS

CDHV (CUSTOM)

SAP Part Number

CDHVTCX0917-0000FT

CDHVTCX0118-0001SW

SAP Description

CDHVTCX0917 FT e2

CDHVTCX0118-1 SW

MODEL	CUSTOM PART NUMBER	PACKAGING	
		SOLDER TERMINATION 1 Digit	PACKAGING TYPE 1 Digit
4 Digits	12 Digits		
CDHV	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX2017-0000 = TCX2017 TCX0917-0001 = TCX917-1	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/, HSD (e2) N = No Solder (all Termination Materials except Nickel barrier) STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, Embossed carrier tape, 7" reel, full reel quantity 1 = Reel pack (std taping except 1,000pcs/reel) 5 = Reel pack (std taping except 500pcs/reel) T = Reel pack (std taping except 250pc min/reel) W = Tray pack NON-STANDARD CODES R = Reel pack, ESD (std taping except 250pc min/reel) M = Reel pack (std taping except 250pcs/reel) 2 = Reel pack (std taping except 2,000pc/reel)



VISHAY TECHNO FILM RESISTORS

CRHV

SAP Part Number
CRHV1210BA20M0FKST
CRHV1206AF1G00JNFB

SAP Description
CRHV1210BA 20M 1% 100 ST
CRHV1206AF 1G 5% 200 FB e2

MODEL	SIZE	TERMINATION STYLE	TERMINATION MATERIAL	RESISTANCE	TOLERANCE	TC	PACKAGING	
							SOLDER TERMINATION 1 Digit	PACKAGING TYPE 1 Digit
4 Digits	4 Digits	1 Digit	1 Digit	4 Digits	1 Digit	1 Digit		
CRHV	1206 1210 2010 2510 2512	A = 3-sided, Wraparound B = Flip chip (top side only) C = 5-sided, Wraparound	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E =Platinum Palladium Gold F = Nickel Barrier	M = Megohms G = Gigohms	F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	K = ±100ppm/°C L = ±150ppm/°C N = ±200ppm/°C R = ±250ppm/°C M = ±300ppm/°C W = ±350ppm/°C P = ±500ppm/°C	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/5, HSD (e2) N = No Solder (for all Termination Materials except Nickel barrier) STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, Embossed carrier tape, 7" reel, full reel quantity 1 = Reel pack (std taping except 1,000pcs/reel) 5 = Reel pack (std taping except 500pcs/reel) T = Reel pack (std taping except 250pc min/reel) W = Tray pack NON-STANDARD CODES R = Reel pack, ESD (std taping except 250pc min/reel) M = Reel pack (std taping except 250pcs/reel) 2 = Reel pack (std taping except 2,000pc/reel)



VISHAY TECHNO FILM RESISTORS

CRHV (CUSTOM)

SAP Part Number
 CRHVTCX0917-0000FT
 CRHVTCX0216-0012NB

SAP Description
 CRHVTCX0917 FT e2
 CRHVTCX0216-12 NB

Model	Custom Part Number	Packaging	
		Solder Termination 1 Digit	Pack Type 1 Digit
4 Digits	12 Digits		
CRHV	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX0917-0000 TCX0917-0001=TCX917-1	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/AG5, HSD (e2) N = No Solder STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, full reel quantity 1 = Reel pack, 1000pcs/reel 5 = Reel pack, 500pcs/reel T = Reel pack, 250pc min/reel W= Tray pack NON-STANDARD CODES R = Reel pack, ESD, 250pc min/reel M = Reel pack, 250pcs/reel 2 = Reel pack, 2000pc/reel



VISHAY TECHNO FILM RESISTORS

CRMV

SAP Part Number

CRMV1210AF1K00FLET
CRMV2510BC49M9JLSW

SAP Description

CRMV1210AF 1K 1% 150 ET e3
CRMV2510BC 49.9M 5% 150 SW

Model	Size	Termination Style	Termination Material	Resistance	Tol	TCR	Packaging	
							Solder Termination	Pack Type
4 Digits	4 Digits	1 Digit	1 Digit	4 Digits	1 Digit	1 Digit	1 Digit	1 Digit
CRMV	1206 1210 2010 2510 2512	A = 3-sided, Wraparound B = Flip chip (top side only)	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E =Platinum Palladium Gold F = Nickel Barrier	R = ohms K = kilohms M = Megohms Examples 4M70 = 4.7M 10M0 = 10M 10G0 = 10G	F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	K = ±100ppm L = ±150ppm N = ±200ppm R = ±250ppm M = ±300ppm W = ±350ppm P = ±500ppm	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/Ag5, HSD (e2) N = No Solder (for all Termination Materials except Nickel barrier) STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, full reel quantity 1 = Reel pack, 1000pcs/reel 5 = Reel pack, 500pcs/reel T = Reel pack, 250pc min/reel W= Tray pack NON-STANDARD CODES R = Reel pack, ESD, 250pc min/reel M = Reel pack, 250pcs/reel 2 = Reel pack, 2000pc/reel



VISHAY TECHNO FILM RESISTORS

CRMV (CUSTOM)

SAP Part Number

CRMVTCX2163-0000TB
CRMVTCX2117-0000FT
CRMVTCX2216-0012NB

SAP Description

CRMVTCX2163 TB
CRMVTCX2117 FT e2
CRMVTCX2216-12 NB

Model 4 Digits	Custom Part Number 12 Digits	Packaging *	
		Solder Termination 1 Digit	Pack Type 1 Digit
CRMV	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX0916-0000 = TCX916 TCX0917-0001 = TCX917-1	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/Ag5, HSD (e2) N = No Solder STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, full reel quantity 1 = Reel pack, 1000pcs/reel 5 = Reel pack, 500pcs/reel T = Reel pack, 250pc min/reel W = Tray pack NON-STANDARD CODES R = Reel pack, ESD, 250pc min/reel M = Reel pack, 250pcs/reel 2 = Reel pack, 2000pc/reel



VISHAY TECHNO FILM RESISTORS

FHV

SAP Part Number

FHV1001G00FKES

FHV40010M0GNRB

FHV151820MJKRS

FHV07549M9FKEB1

SAP Description

FHV100 1G 1% 100 ES e3

FHV400 10M 2% 200 RB

FHV151 820M 5% 100 RS

FHV075-1 49.9M 1% 100 EB e3

Model	Size	Resistance	Tol	Temperature Coefficient	Terminal Finish / Packaging	Special
3 Digits	3 Digits	4 Digits	1 Digit	1 Digit	2 Digits	Up to 3 digits
FHV	Radial-leaded sizes: 025 050 075 100 150 160 200 400 500 Axial-leaded sizes: 026 051 076 101 151 161 201 401 501	R = ohms K = kilohms M = Megohms G = Gigohms Examples 400R = 400 10M0 = 10M 10G0 = 10G	D = $\pm 0.5\%$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	H = $\pm 50\text{ppm}$ K = $\pm 100\text{ppm}$ L = $\pm 150\text{ppm}$ N = $\pm 200\text{ppm}$ M = $\pm 300\text{ppm}$ P = $\pm 500\text{ppm}$	STANDARD LEADFREE CODES EB = Bulk pack, Sn100 terminal finish (e3) ES = Strip pack, Sn100 terminal finish (e3) STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish RS = Strip pack, Sn60/Pb40 terminal finish	Dash #'s 1 thru 999 as applicable Blank = Standard GENERAL USAGE DASH NUMBERS 1 = Flameproof coating



VISHAY TECHNO FILM RESISTORS

FHV (CUSTOM)

SAP Part Number

FHVTCX0647-0000ES

FHVTCX0926-0014RB

SAP Description

FHVTCX0647 ES e3

FHVTCX0926-14 RB

Model 3 Digits	Custom part number 12 Digits	Terminal Finish / Packaging 2 Digits
FHV	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler, dash numbers progress from right to left) Examples: TCX0647-0000 TCX0647-0001 = TCX0647-1	STANDARD LEADFREE CODES EB = Bulk pack, Sn100 terminal finish (e3) ES = Strip pack, Sn100 terminal finish (e3) NB = Bulk pack, No solder NS = Strip pack, No solder STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish RS = Strip pack, Sn60/Pb40 terminal finish



VISHAY TECHNO FILM RESISTORS

HML

SAP Part Number

HML0110K0FKE05

HML012M00JME05

SAP Description

HML01 10K 1% K E05 e3

HML01 2M 5% M E05 e3

MODEL	SIZE	VALUE	TOLERANCE	T.C.	PACKAGING	SPECIAL
3 digits	2 digits	4 digits	1 digit	1 digit	3 digits	Up to 3 digits
HML	01	R = ohms K = kilohms M = Megohms 0000 = 0 ohm jumper or special Check data sheet for available value range	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ Z = 0 ohm jumper	K = $\pm 100\text{ppm}$ N = $\pm 200\text{ppm}$ M = $\pm 300\text{ppm}$ S = Special	STANDARD LEAD FREE PACKAGING CODES E05 = Lacer pack	Dash #'s 1 thru 999 as applicable



VISHAY TECHNO NETWORKS

MCN

SAP Part Number
MCN0501N101KTB
MCN1009X103MCB

SAP Description
MCN05-01N-101K TB
MCN10-09X-103M CB e1

MODEL 3 Digits	PIN COUNT 2 Digits	SCHEMATIC 2 Digits	CAPACITOR DIELECTRIC 1 Digit	CAPACITANCE VALUE 3 Digits	CAPACITANCE TOLERANCE 1 Digit	PACKAGING 2 Digits
MCN	08 09 10	01 02 09	N = NPO X = X7R *NPO capacitors may be substituted for XR7 capacitors	3-digit numeric code (in picofarads) where the first two digits are the significant figures and the last digit is the multiplier.	K = $\pm 10\%$ M = $\pm 20\%$	STANDARD LEADFREE CODES CB = Bulk pack STANDARD TIN/LEAD CODES TB = Bulk pack



VISHAY TECHNO NETWORKS

MRCN

SAP Part Number

MRCN082N101J500KTW

MRCN103X102J470MCB

SAP Description

MRCN08-20N-101J/500K TW

MRCN10-30X-102J/470M CB e1

MODEL 4 Digits	PIN COUNT 2 Digits	SCHEMATIC 1 Digits	CAPACITOR DIELECTRIC 1 Digit	RESISTANCE VALUE 3 Digits	RESISTANCE TOLERANCE 1 Digits	CAPACITANCE VALUE 3 Digit	CAPACITANCE TOLERANCE 1 Digit	PACKAGING 2 Digits
MRCN	08 10	1 = 10 2 = 20 3 = 30	N = NPO X = X7R *NPO capacitors may be substituted for XR7 capacitors	3-digit numeric code where the first two digits are the significant figures and the last digit is the multiplier.	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$	3-digit numeric code (in picofarads) where the first two digits are the significant figures and the last digit is the multiplier.	K = $\pm 10\%$ M = $\pm 20\%$	STANDARD LEADFREE CODES CB = Bulk pack CW = Tray pack STANDARD TIN/LEAD CODES TB = Bulk pack TW = Tray pack



VISHAY TECHNO NETWORKS

NETxTCX (CUSTOM SIPs, DIPs)

SAP Part Number
NETSTCX0843-0000FB
NETDTCX0567-0023ST

SAP Description
NETSTCX0843 FB e2
NETDTCX0567-23 ST

MODEL 4 Digits	CUSTOM PART NUMBER 12 Digits	PACKAGING	
		TERMINAL FINISH 1 Digit	PACKAGING TYPE 1 Digit
NETC = Coated SIP NETD = Molded DIP NETS = Molded SIP	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX1002-0000 = TCX1002 TCX0843-0001 = TCX0843-1	STANDARD LEADFREE CODES D = Sn95/Ag5, HSD (e2) C = Sn95.5/Ag3.9/Cu0.6 (e1) N = No Solder STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD R = Sn60/Pb40 P = Sn63/Pb37, HSD * NOTE – Package code includes both Terminal Finish and Packaging Type	STANDARD CODES B = Bulk pack T = Tube pack W = Tray pack C = Custom pack, per TPI



VISHAY TECHNO NETWORKS

QUADTCX (CUSTOM QUADs)

SAP Part Number
QUADTCX0368-0001RB

SAP Description
QUAD TCX0368-1 RB

MODEL 4 Digits	CUSTOM PART NUMBER 8 Digits	PACKAGING 2 Digits
QUAD	TCXxxxx-xxxx (If no digit code is displayed, use "0" as filler) Examples: TCX0377-0000 = TCX0377 TCX0368-0001 = TCX0368-1	STANDARD TIN/LEAD CODES RB = Bulk pack RT = Reel pack



VISHAY TECHNO FILM RESISTORS

RC (former CR)

SAP Part Number

RC0575AA1K00GKSB

RC1206AE500KKLFW

RC2010BC1M00FKNB2

SAP Description

RC0575AA 1K 2% 100 SB

RC1206AE 500K 10% 150 FW e2

RC2010BC-2 1M 1% 100 NB

Model	Size	Termination Style	Termination Material	Resistance Value	Tolerance	TCR	Packaging		Special
							Solder Termination	Pack Type	
2 Digits	4 Digits	1 Digit	1 Digit	4 Digits	1 Digit	1 Digit	1 Digit	1 Digit	Up to 2 digits
RC	0540 = CR1 0550 = CR5050 0575 = CR2 5100 = CR3 1100 = CR1010 1206 = CR1206 5150 = CR4 7225 = CR5 2010 = CR2010	A = 3-sided, Wraparound B = Flip chip (top side only) C = 5-sided, Wraparound	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E = Platinum Palladium Gold	R = ohms K = kilohms M = Megohms 0000 = 0 ohm jumper Examples 100R = 100R 1K00 = 1K 10M0 = 10M	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = 0 ohm jumper	K = $\pm 100\text{ppm}$ L = $\pm 150\text{ppm}$ N = $\pm 200\text{ppm}$ W = $\pm 350\text{ppm}$ S = Special 0 ohm jumper	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/Ag5, HSD (e2) N = No Solder STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, full reel quantity 1 = Reel pack, 1000pcs/reel 5 = Reel pack, 500pcs/reel T = Reel pack, 250pc min/reel W = Tray pack NON-STANDARD CODES R = Reel pack, ESD, 250pc min/reel M = Reel pack, 250pcs/reel 2 = Reel pack, 2000pc/reel	Dash #'s 1 thru 99 as applicable



VISHAY TECHNO FILM RESISTORS

TD (CUSTOM)

SAP Part Number

TDTCX0667-0001EB

TDTCX1001-0000RS

SAP Description

TDTCX0667-1 EB e3

TDTCX

Model 2 Digits	Custom part number 12 Digits	Terminal Finish / Packaging 2 Digits
TD	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX0667-0000 TCX0667-0001= TCX0667-1	STANDARD LEADFREE CODES EB = Bulk pack, Sn100 terminal finish (e3) ES = Strip pack, Sn100 terminal finish (e3) STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish RS = Strip pack, Sn60/Pb40 terminal finish NON-STANDARD LEADFREE CODES EW = Tray pack, Sn100 terminal finish (e3) NON-STANDARD TIN/LEAD CODES RW = Tray pack, Sn60/Pb40 terminal finish PB = Bulk pack, Sn63/Pb37 terminal finish PS = Strip pack, Sn63/Pb37 terminal finish PW = Tray pack, Sn63/Pb37 terminal finish



VISHAY TECHNO FILM RESISTORS

TD

SAP Part Number

TDA10E20M05000DFEB
TDX30K2G000400GGRB

SAP Description

TDA10E20M0/5000DF EB e3
TDX30K2G00/0400GG RB

Model	Voltage Rating	Size	TCR Tracking	Resistance (R ₁)	Ratio R ₁ /R ₂	Ratio Tol.	Absolute Tol.	Terminal Finish / Packaging
2 Digits	1 Digit	2 Digits	1 Digit	4 Digits	4 Digits	1 Digit	1 Digit	2 Digits
TD	A = Medium voltage X = High voltage	03	E = 25	R = ohms	First 3 Digits are significant figures and the last Digit specifies the number of zeros to follow. Examples 0010 = 1:1 0400 = 40:1 2210 = 221:1 1001 = 1000:1	D = 0.5% F = 1% G = 2% J = 5%	D = 0.5% F = 1% G = 2% J = 5% K = 10% M = 20%	STANDARD LEADFREE CODES EB = Bulk pack, Sn100 terminal finish (e3) STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish
		05	H = 50	K = kilohms				
		10	K = 100	M = Megohms				
		15		G = Gigohms				
		20		T = Teraohms				
		30						
				Examples 400R = 400 10M0 = 10M 10G7 = 10.7G				



VISHAY TECHNO FILM RESISTORS

TR

SAP Part Number
TR03C350RDKEB
TR20X1T00JSRS
TR05D49K9FKES1

SAP Description
TR03C 350 .5% 100 EB e3
TR20X 1T 5% RS
TR05D-1 49.9K 1% 100 ES e3

Model	Size / Power Rating	Resistance	Tol.	TCR	Terminal Finish / Packaging	Special
igits	3 Digits	4 Digits	1 Digit	1 Digit	2 Digits	Up to 3 digits
TR	03C = 0.25 W 03X = 0.25 W, max voltage 05D = 0.5 W 05X = 0.5 W, max voltage 10F = 1 W 10X = 1 W, max voltage 15G = 1.5 W 15X = 1.5 W, max voltage 20H = 2 W 20X = 2 W, max voltage 30J = 3 W 30X = 3 W, max voltage	R = ohms K = kilohms M = Megohms G = Gigohms T = Teraohms Examples 400R = 400 10M0 = 10M 3T00 = 3T	C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1\%$ G = $\pm 2\%$ H = $\pm 3\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	K = $\pm 100\text{ppm}$ L = $\pm 150\text{ppm}$ N = $\pm 200\text{ppm}$ M = $\pm 300\text{ppm}$ Q = $\pm 400\text{ppm}$ P = $\pm 500\text{ppm}$ T = $\pm 600\text{ppm}$ G = $\pm 700\text{ppm}$ U = $\pm 1000\text{ppm}$ S = Special (TC undefined)	STANDARD LEADFREE CODES EB = Bulk pack, Sn100 terminal finish (e3) ES = Strip pack, Sn100 terminal finish (e3) STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish RS = Strip pack, Sn60/Pb40 terminal finish	Dash #'s 1 thru 999 as applicable Blank = Standard GENERAL USAGE DASH NUMBERS 1 = Flameproof coating



VISHAY TECHNO FILM RESISTORS

TR (CUSTOM)

SAP Part Number
TRTCX0843-0000EB
TRTCX0122-0002RS

TRTCX0843 EB e3
TRTCX0112-2 RS

SAP Description

Model	Custom Part Number	Terminal Finish / Packaging
2 Digits	12 Digits	2 Digits
TR	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX0843-0000 TCX0843-0001= TCX0843-1	STANDARD LEADFREE CODES EB = Bulk pack, Sn100 terminal finish (e3) ES = Strip pack, Sn100 terminal finish (e3) STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish RS = Strip pack, Sn60/Pb40 terminal finish NON-STANDARD LEADFREE CODES EW = Tray pack, Sn100 terminal finish (e3) EC = Custom pack, per TPI, Sn100 terminal finish (e3) NB = Bulk pack, No Solder NS = Strip pack, No Solder NW = Tray pack, No Solder NC = Custom pack, per TPI, No Solder NON-STANDARD TIN/LEAD CODES RW = Tray pack, Sn60/Pb40 terminal finish RC = Custom pack, per TPI, Sn60/Pb40 terminal finish



VISHAY TECHNO FILM RESISTORS

RCHR

SAP Part Number
RCHR1206AF750MJPEW
RCHR1005AF1G00KPEB

SAP Description
RCHR1206AF 750M 5% 500 EW e3
RCHR1005AF 1G 10% 500 EB e3

MODEL	SIZE	TERMINATION STYLE	TERMINATION MATERIAL	RESISTANCE	TOL	TCR	PACKAGING	
							SOLDER TERMINATION 1 Digit	PACK TYPE 1 Digit
4 Digits	4 Digits	1 Digit	1 Digit	4 Digits	1 Digit	1 Digit		
RCHR	0805 1005 1206	A = 3-sided, Wraparound B = Flip chip (top side only)	C = Gold F = Nickel Barrier	K = kilohm M = Megohms G = Gigohms 4M70 = 4.7M 10M0 = 10M 10G0 = 10G	J = ±5% K = ±10% V = ±25%	P = ±500ppm	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/Ag5, HSD (e2) N = No Solder (for Gold terminations) STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD *NOTE – Package code includes this column and the next	STANDARD CODES B = Bulk pack F = Reel pack, full reel quantity 1 = Reel pack, 1000pcs/reel 5 = Reel pack, 500pcs/reel T = Reel pack, 250pc min/reel W = Tray pack NON-STANDARD CODES R = Reel pack, ESD, 250pc min/reel M = Reel pack, 250pcs/reel 2 = Reel pack, 2000pc/reel



VISHAY TECHNO FILM RESISTORS

RCHRTCX (CUSTOM)

SAP Part Number
RCHRTCX0917-0000FT
RCHRTCX0216-0012NB

SAP Description
RCHRTCX0917 FT e2
RCHRTCX0216-12 NB

Model	Custom Part Number	Packaging	
		Solder Termination 1 Digit	Pack Type 1 Digit
4 Digits	12 Digits		
RCHR	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX0917-0000 TCX0917-0001=TCX917-1	STANDARD LEADFREE CODES E = Sn100 (e3) F = Sn95/Ag5 (e2) D = Sn95/AG5, HSD (e2) N = No Solder STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD NON-STANDARD TIN/LEAD CODES R = Sn60/Pb40 P = Sn63/Pb37, HSD *NOTE – Package code includes both Solder Termination and Packaging Type	STANDARD CODES B = Bulk pack F = Reel pack, full reel quantity 1 = Reel pack, 1000pcs/reel 5 = Reel pack, 500pcs/reel T = Reel pack, 250pc min/reel W = Tray pack NON-STANDARD CODES R = Reel pack, ESD, 250pc min/reel M = Reel pack, 250pcs/reel 2 = Reel pack, 2000pc/reel



VISHAY TECHNO NETWORKS

TxxL

SAP Part Number

T14L1025K0TT

T16L08100KCT

T16LR850K0TT

SAP Description

T14L10 25K TT

T16L08 100K CT e1

T16LR8 50K TT

MODEL 6 Digits	SCHEMATIC 2 Digits	RESISTANCE VALUE (R) 4 Digits	PACKAGING 2 Digits
T14L = 14 pin T16L = 16 pin	10 (T14L only) 08 (T16L only) R8 (T16L only)	K = kilohms Reference: If R = 100K Then 2R = 200K	STANDARD LEADFREE CODES CT = Tube pack STANDARD TIN/LEAD CODES TT = Tube pack NON-STANDARD LEADFREE CODES NT = Tube pack



VISHAY TECHNO NETWORKS TCN

SAP Part Number
TCN1201X104MTB
TCN1009N102KCB

SAP Description
TCN12-01X-104M TB
TCN10-09N-102K CB e1

MODEL 3 Digits	PIN COUNT 2 Digits	SCHEMATIC 2 Digit	CAPACITOR DIELECTRIC 1 Digit	CAPACITANCE VALUE 3 Digits	CAPACITANCE TOLERANCE 1 Digit	PACKAGING 2 Digits
TCN	06 07 08 09 10 11 12	01 02 09	N = NPO X = X7R *NPO capacitors may be substituted for XR7 capacitors	3-digit numeric code (in picofarads) where the first two digits are the significant figures and the last digit is the multiplier.	K = $\pm 10\%$ M = $\pm 20\%$	STANDARD LEADFREE CODES CB = Bulk pack STANDARD TIN/LEAD CODES TB = Bulk pack



VISHAY TECHNO NETWORKS

TCX*

SAP Part Number
TCX0843-0000EB
TCX0145-0100NS

SAP Description
TCX0843 EB e3
TCX0145-100 NS

* Note: To be used for the custom products that would not fall under any of the other TCX family groups.

MODEL	CUSTOM PART NUMBER	PACKAGING	
		TERMINAL FINISH	PACKAGING TYPE
2 Digits	8 Digits	1 Digit	1 Digit
TCX	xxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: 1002-0000 = TCX1002 0843-0001 = TCX0843-1	STANDARD LEADFREE CODES E = Sn100 (e3) D = Sn95/Ag5, HSD (e2) C = Sn95.5/Ag3.9/Cu0.6 (e1) N = No Solder STANDARD TIN/LEAD CODES T = Sn90/Pb10 S = Sn62/Pb36/Ag2, HSD R = Sn60/Pb40 P = Sn63/Pb37, HSD OTHER CODES X=Special, per TPI (termination material specified by customer) *NOTE – Package code includes this column and the next	STANDARD CODES B = Bulk pack S = Strip pack T = Tube pack W= Tray pack C = Custom pack, per TPI



VISHAY TECHNO NETWORKS

TRC

SAP Part Number

TRC0801N101J560KTB

TRC0901X220G390KCB

SAP Description

TRC08-01N-101J/560K TB

TRC09-01X-220G/390K CB e1

MODEL 3 Digits	PIN COUNT 2 Digits	SCHEMATIC 2 Digits	CAPACITOR DIELECTRIC 1 Digit	RESISTANCE VALUE 3 Digits	RESISTANCE TOLERANCE 1 Digit	CAPACITANCE VALUE 3 Digits	CAPACITANCE TOLERANCE 1 Digit	PACKAGING 2 Digits
TRC	06 07 08 09 10 11 12	01 02 09	N = NPO X = X7R *NPO capacitors may be substituted for XR7 capacitors	3-digit numeric code where the first two digits are the significant figures and the last digit is the multiplier.	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$	3-digit numeric code (in picofarads) where the first two digits are the significant figures and the last digit is the multiplier.	K = $\pm 10\%$ M = $\pm 20\%$	STANDARD LEADFREE CODES CB = Bulk pack STANDARD TIN/LEAD CODES TB = Bulk pack



VISHAY TECHNO NETWORKS

TSR

SAP Part Number
TSR100RFFCB
TSR20R0CDRS

SAP Description
TSR100RFF CB e1
TSR20R0CD RS

MODEL 3 Digits	RESISTANCE VALUE 4 Digits	RESISTANCE TOLERANCE 1 Digit	RATIO TOLERANCE 1 Digit	PACKAGING 2 Digits
TSR	R = ohms	C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1\%$	C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1\%$	STANDARD LEADFREE CODES CB = Bulk pack (SnAgCu solder) CS = Strip pack (SnAgCu solder) STANDARD TIN/LEAD CODES RB = Bulk pack RS = Strip pack



VISHAY TECHNO NETWORKS

TSR (CUSTOM)

SAP Part Number
TSRTCX0843-0001CB
TSRTCX0054-0000RB

SAP Description
TSRTCX0843-1 CB e1
TSRTCX0054 RB

MODEL 3 Digits	CUSTOM PART NUMBER 12 Digits	PACKAGING 2 Digits
TSR	TCXxxxx-xxxx (If no Digit code is displayed, use "0" as filler) Examples: TCX1002-0000= TCX1002 TCX0843-0001= TCX0843-1	STANDARD LEADFREE CODES CB = Bulk pack (SnAgCu solder) CS = Strip pack (SnAgCu solder) STANDARD TIN/LEAD CODES RB = Bulk pack RS = Strip pack



VISHAY TECHNO NETWORKS

TxxS

SAP Part Number
T10S08100KRB
T08S0650K0FB

SAP Description
T10S-08 100K RB
T08S-06 50K FB e2

MODEL	NO. OF BITS	RESISTANCE VALUE (R)	PACKAGING
4 Digits	2 Digits	4 Digits	2 Digits
T06S = 6 pin T07S = 7 pin T08S = 8 pin T09S = 9 pin T10S = 10 pin	04 =4 bits (T06S only) 05 =5 bits (T07S only) 06 = 6 bits (T08S only) 07 = 7 bits (T09S only) 08 = 8 bits (T10S only)	K = Thousand Examples 5K00 = 5K OHMS 5K10 = 5.1 K OHMS 100K = 100K OHMS Reference Schematic: IF R=100K, THEN 2R=200K IF R=5K, THEN 2R=10K	STANDARD LEADFREE CODES CB = Bulk pack, Sn95.5/Ag3.9/Cu0.6 terminal finish (e1) STANDARD TIN/LEAD CODES RB = Bulk pack, Sn60/Pb40 terminal finish



VISHAY TECHNO FILM RESISTORS
MISCELLANEOUS / CHARGES (cont 1 of 3)

SAP Part Number

SAP Description

81018706B29 (Part number for 810187-06 reel plug, packaged B29)

PART NUMBER	DASH TYPE	PACKAGING
6 Digits	2 Digits	3 Digits
2xxxxx 8xxxxx		B29, P03, S27, S31, T03, etc.



VISHAY TECHNO FILM RESISTORS
CHARGES (cont 2 of 3)

SAP Part Number

SAP Description

LOTCHG-TECHNOSMD (Part number for Techno Film surface mount charges, packaging S31)

CHARGE 7 Digits	RESISTOR STYLE Up to 11 Digits
LOTCHG-	TECHNOLEAD = (Techno Leaded Film) TECHNOSMD = (Techno SMD Film)



VISHAY TECHNO FILM RESISTORS
FAST TRACK PROGRAM (cont 3 of 3)

SAP Part Number

SAP Description

CHARGE 6 digits	LEAD TIME 2 digits	RESISTOR STYLE 6 digits
FSTTRK	05 = 5 working days 10 = 10 working days 15 = 15 working days	TECHNO