



SAP PART NUMBERING MANUAL

VISHAY DALE ANGSTROHM FILM RESISTORS



VISHAY ANGSTROHM FILM RESISTORS

GSR

SAP Part Number
 GSR55E487K00BCS
 GSR75X39R000DCT
 GSR55H49R900FMR
 GSR60H332K00FKA

SAP Description
 GSR-55 487K .1% T-9 RJ7
 GSR-75 39 5% T-10 RJ8
 GSR-55 49.9 1% T-2 M76
 GSR-60 332K 1% T-2 K36

MODEL 3 digits	SIZE 2 digits	T.C. 1 digit	VALUE 6 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 3 digits
GSR	55 57 60 65 70 75	X = ± 15 ppm/ $^{\circ}$ C (T-10) E = ± 25 ppm/ $^{\circ}$ C (T-9) H = ± 50 ppm/ $^{\circ}$ C (T-2)	R = ohms K = kilohms M = Megohms Check data sheet for available value range	A = $\pm 0.05\%$ B = $\pm 0.1\%$ D = $\pm 0.5\%$ F = $\pm 1\%$	STANDARD CODES MR = Foil Bag pack, Antistatic bag, Heat-seal (M76, for all except 65, 70, and 75-size) MS = Foil Bag pack, Antistatic bag, Heat-seal (M77, for 65, 70, and 75-size only) CS = Reel pack. 0.200" pitch, 2-1/16" tape spacing, with lead trim, small reel flange, black conductive bag (RJ7, for 55, 57 & 60-size) CT = Reel pack. 0.375" pitch, 2 7/8" tape spacing, with lead trim, small reel flange, black conductive bag (RJ8, for 65, 70 & 75-size) NON-STANDARD CODES KA = Ammo pack, 0.200" pitch, 2-1/16" tape spacing, w/lead trim (K36, for 55, 57 & 60-size) KC = Ammo pack, 0.375" pitch, 2-7/8" tape spacing, w/lead trim (K68, for 65, 70 & 75-size)	Dash #'s 1 thru 999 as applicable Blank = Standard



VISHAY ANGSTROHM FILM RESISTORS

HDN (Military - RNR / RNN)

SAP Part Number
RNN55C1002FSM76
RNR65E10R0FSRJ865

SAP Description
HDN-55 10K 1% T-2 RNN55C1002FS M76
HDN-65-65 10 1% T-9 RNR65E10R0FS RJ8

MODEL 3 digits	SIZE 2 digits	T.C. 1 digit	VALUE 4 digits	TOLERANCE 1 digit	FAILURE RATE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
RNN RNR	55 57 60 65 70 75	E = $\pm 25\text{ppm}/^\circ\text{C}$ (T-9) C = $\pm 50\text{ppm}/^\circ\text{C}$ (T-2) J = $\pm 25\text{ppm}/^\circ\text{C}$ (T-9, 75-size only)	4-digit numeric code where the first three digits are the significant figures and the last digit is the multiplier. For values below 100 ohms, an "R" is used as a decimal placeholder. (NOTE: P/N FORMAT PER MIL-PRF-55182) Check data sheet for available Value Range	B = $\pm 0.1\%$ D = $\pm 0.5\%$ F = $\pm 1\%$	M = 1% P = 0.1% R = 0.01% S = 0.001%	STANDARD CODES M76 = Foil Bag pack, Antistatic bag, Heat-seal (for sizes except 65, 70, and 75) M77 = Foil Bag pack, Antistatic bag, Heat-seal (for 65, 70, and 75-size only) RJ7 = Reel pack. 0.200" pitch, 2-1/16" tape spacing, w/lead trim, small reel flange, black conductive bag (for 55, 57 & 60-size) RJ8 = Reel pack. 0.375" pitch, 2 7/8" tape spacing, w/lead trim, small reel flange, black conductive bag (for 65, 70 & 75-size) STANDARD SLDC CODES BSL = Foil Bag pack, SLDC RSL = Reel pack, std taping, SLDC NON-STANDARD CODES K36 = Ammo pack, 0.200" pitch, 2-1/16" tape spacing, w/lead trim (for 55, 57 & 60-size) K68 = Ammo pack, 0.375" pitch, 2-7/8" tape spacing, w/lead trim (for 65, 70 & 75-size)	Dash #'s 1 thru 999 as applicable Blank = Standard 1 = HSD (57, 60 & 75-size) 4 = HSD (70-size) 65 = HSD (55 & 65-size)



VISHAY ANGSTROHM FILM RESISTORS

HDN (Specials) (Typically to Customer Source Control Drawings)

SAP Part Number

HDN60H536R00FMR97
HDN57E10K000BCS122

SAP Description

HDN-60-97 536 1% T-2 M76
HDN-57-122 10K .1% T-9 RJ7

MODEL 3 digits	SIZE 2 digits	T.C. 1 digit	VALUE 6 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 3 digits
HDN	55 57 60 65 70 75	E = ±25ppm/°C (T-9) H = ±50ppm/°C (T-2)	R = ohms K = kilohms M = Megohms Check data sheet for available value range	A = ±0.05% B = ±0.1% D = ±0.5% F = ±1%	STANDARD CODES MR = Foil Bag pack, Antistatic bag, Heat-seal (M76, for all except 75-size) MS = Foil Bag pack, Antistatic bag, Heat-seal (M77, for 75-size only) CS = Reel pack. 0.200" pitch, 2-1/16" tape spacing, with lead trim, small reel flange, black conductive bag (RJ7, for 55, 57 & 60-size) CT = Reel pack. 0.375" pitch, 2 7/8" tape spacing, with lead trim, small reel flange, black conductive bag (RJ8, for 65, 70 & 75-size) STANDARD SLDC CODES BS = Foil Bag pack, SLDC (BSL) UL = Reel pack, std taping, SLDC (RSL) NON-STANDARD CODES KA = Ammo pack, 0.200" pitch, 2-1/16" tape spacing, w/lead trim (K36, for 55, 57 & 60-size) KC = Ammo pack, 0.375" pitch, 2-7/8" tape spacing, w/lead trim (K68, for 65, 70 & 75-size)	Dash #'s 1 thru 999 as applicable



VISHAY ANGSTROHM FILM RESISTORS

HMS (Hermetic Matched Sets)

SAP Part Number

HMS110

HMS090S2

SAP Description

HMS-110 S51

HMS-90-2 S51

Standard packaging code S51 for all part numbers

MODEL 3 digits	TYPE 3 digits	SPECIAL Up to 4 digits
HMS	001 thru 999 074 = 74 090 = 90 110 = 110	Sxxx (only if needed, where xxx = 001 thru 999)



VISHAY ANGSTROHM FILM RESISTORS

MISCELLANEOUS (cont 1 of 3)

SAP Part Number
81018706B29

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

PART NUMBER 6 digits	DASH TYPE 2 digits	PACKAGING 3 digits
2xxxxx 8xxxxx	00 thru 99 as applicable	B29, P03, S27, S31, T03, etc.



VISHAY ANGSTROHM FILM RESISTORS

LOT CHARGES (cont 2 of 3)

SAP Part Number
LOTCHG-ANGHERMMIL

SAP Description
LOTCHG- ANGHERMMIL S31

Standard packaging code S31 for all part numbers

CHARGE 7 digits	RESISTOR STYLE Up to 11 digits
LOTCHG-	ANGHERMMIL = Angstrohm Hermetic Leaded-Film, Military ANGHERMCOM= Angstrohm Hermetic Leaded-Film, Commercial ANGHERMCUS = Angstrohm Hermetic Leaded-Film, Custom



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

SAP Part Number

FSTTRK10ANGHF
FSTTRK20ANGHFCOM

SAP Description

FSTTRK10ANGHF S31
FSTTRK20ANGHFCOM S31

Standard packaging code S31 for all part numbers

CHARGE 6 digits	LEAD TIME 2 digits	RESISTOR STYLE 9 digits
FSTTRK	05 = 5 working days 10 = 10 working days 15 = 15 working days 20 = 20 working days	ANGHF MIL = Angstrom Hermetic Leaded-Film, Military ANGHF COM = Angstrom Hermetic Leaded-Film, Commercial ANGHF CUS = Angstrom Hermetic Leaded-Film, Custom