VISHAY 55342 UPGRADE GUIDE

How to upgrade Vishay MIL-Chips Resistors

Example Part Number : M55342K02B10E0PWB

The DNA of tech.

M55342

*MIL style D55342 ONLY applies to style 07 (RM1206); M55342 applies to the other styles except 07.

K — Characteristics

E = 25 ppm (Thin Film)
H = 50 ppm (Thin Film)
K = 100 ppm
L = 200 ppm
M = 300 ppm

*The lower ppm the 'better than' part. You can always use a lower ppm as the 'better than' part.

02 — Spec / Sheet Case Size

01 = 0502
02 = 0505
03 = 0603
04 = 1505
05 = 2208
06 = 0705
07 = 1206
08 = 2010
09 = 2512
10 = 1010
11 = 0402
12 = 0603

B — Termination Style

B = Pre-tinned nickel barrier, wraparound

10E0 — Value and Tolerance Multiplier

Tolerance	1 Ω	1 kΩ	1 MΩ
0.1%	A	B	C
0.25%	R	U	V
0.5%	W	Y	Z
1%	D	E	F
2%	G	H	T
5%	J	K	L
10%	M	N	P

P — Failure Rate

T = Space Level
S = 0.001 % / 1000 h
R = 0.01 % / 1000 h
P = 0.1 % / 1000 h
M = 1.0 % / 1000 h
C = Non-Established Reliability

*Failure rate U and V require Group A and B testing data.

WB — Vishay Package Codes

*See the Vishay Package Code Chart below

WB

Vishay Package Code for Thin and Thick Film M55342

Thick Film 55342
S6 = tin / lead, T/R (300 pieces)
S2 = tin / lead, T/R (500 pieces)
S3 = tin / lead, T/R (1000 pieces)
TP = tin / lead, T/R (Full Reel)
TN = tin / lead, T/R (Full Reel, w/ESD)
UL = tin / lead, T/R (single lot date code)
SV = tin / lead, T/R (1000 pcs, w/ESD)
SU = tin / lead, T/R (500 pcs, w/ESD)
ST = tin / lead, T/R (300 pcs, w/ESD)

Thick Film 55342
ST = tin / lead, T/R (300 pcs, w/ESD)
WB = tin / lead, waffle tray
WA = tin / lead, waffle tray, w/ESD
WL = tin / lead, waffle tray (single lot)
BS-Bulk Thin Film Only
WS-Waffle Pack 25 pcs min Thin Film Only
WO-Waffle Pack 100 pc min Thin Film Only

Thin Film 55342
BS = Bulk Thin Film Only
WS = Waffle Pack (25 pcs min, Thin Film Only)
WO = Waffle Pack (100 pcs min)
WI = 25 min (item single lot date code)
WP = 25 min (package unit single lot date code)

Thin Film Tape and Reel
T0 - 100 pcs reel
T3 – 300 pcs reel
T5 - 500 pcs reel
T1 – 1000 pcs reel
TF- = full reel (2K, 4K, or 5K dependent on case size) per tape and reel document 60034
TS = 25 min. Special Packaging:
TI = 25 min (item single lot date code)
TP = 25 min. (package unit single lot date code)

Established Reliability Resistors, Failure Rate

The probability of failure per unit of time of items in operation.
Sometimes estimated as a ratio of the number of failures to the accumulated operating time for the items.

Failure Rate Level Designation / Symbol	Failure Rate (Percent / 1,000 hrs)	Failure Rate	Failure Rate Substitution
T	Space Level	T (Space)	-
S	0.001	S (0.001)	T
R	0.01	R (0.1)	T, S
P	0.1	P (0.1)	T, S, R
M	1	M (1.0)	T, S, R, P
C	Non-Established Reliability	C (Non-ER)	T, S, R, P, M