

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	02	B	10E0	P	WB																																
Characteristics	Spec / Sheet Case Size	Termination Style	Value and Tolerance Multiplier	Failure Rate	Vishay Package Codes																																
E = 25 ppm (Thin Film)	01 = 0502	B = Pre-tinned nickel barrier, wraparound	↓ <table><tr><th>Tolerance</th><th>1 Ω</th><th>1 kΩ</th><th>1 MΩ</th></tr><tr><td>0.1%</td><td>A</td><td>B</td><td>C</td></tr><tr><td>0.25%</td><td>R</td><td>U</td><td>V</td></tr><tr><td>0.5%</td><td>W</td><td>Y</td><td>Z</td></tr><tr><td>1%</td><td>D</td><td>E</td><td>F</td></tr><tr><td>2%</td><td>G</td><td>H</td><td>T</td></tr><tr><td>5%</td><td>J</td><td>K</td><td>L</td></tr><tr><td>10%</td><td>M</td><td>N</td><td>P</td></tr></table>	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	T = Space Level	*See the Vishay Package Code Chart below
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																																	
H = 50 ppm (Thin Film)	02 = 0505	S = 0.001 % / 1000 h																																			
K = 100 ppm	03 = 0603	R = 0.01 % / 1000 h																																			
L = 200 ppm	04 = 1505	P = 0.1 % / 1000 h																																			
M = 300 ppm	05 = 2208	M = 1.0 % / 1000 h																																			
*The lower ppm the 'better than' part. You can always use a lower ppm as the 'better than' part.	06 = 0705	C = Non-Established Reliability																																			
	07 = 1206	*Failure rate U and V require Group A and B testing data.																																			
	08 = 2010																																				
	09 = 2512																																				
	10 = 1010																																				
	11 = 0402																																				
	12 = 0603																																				
13 = 0302																																					

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

WB

Vishay Package Code for Thin and Thick Film M55342

Thick Film 55342 Tape and Reel

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

Thick Film 55342 Other

WB = tin / lead, waffle tray
WA = tin / lead, waffle tray, w/ESD
WL = tin / lead, waffle tray (SLDC)

Thin Film Tape and Reel

T0 - 100 pcs reel
T3 - 300 pcs reel
T5 - 500 pcs reel
T1 - 1000 pcs reel
TF- = Full reel
TS = 25 min. Special Packaging
TI = 25 min (SLDC per order)
TP = 25 min. (SLDC per order)

Thin Film 55342 Other

BS = Bulk Thin Film Only
WS = Waffle Pack (25 pcs min)
WO = Waffle Pack (100 pcs mult)
WI = 25 min (SLDC per order)
WP = 25 min (SLDC per package)

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	Failure Rate	Failure Rate	Failure Rate
Designation / Symbol	(Percent / 1,000 hrs)		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

For inquiries, please reach out to our team at



ff2aresistors@vishay.com and



thinfilm@vishay.com.