

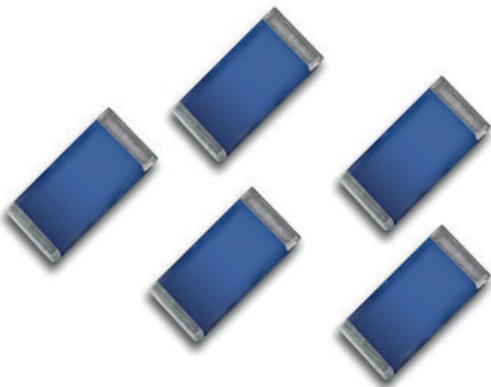
# Precision Military and Space Qualified Chip Resistors



## MIL-CHIP Series

### Features

- Now qualified to MIL-PRF-55342 Space Level T
- Four industry standard sizes available
- MIL-PRF-55342 Characteristics E, H, K, and M
- MIL-PRF-55342 extended reliability levels C, M, P, R, S and T

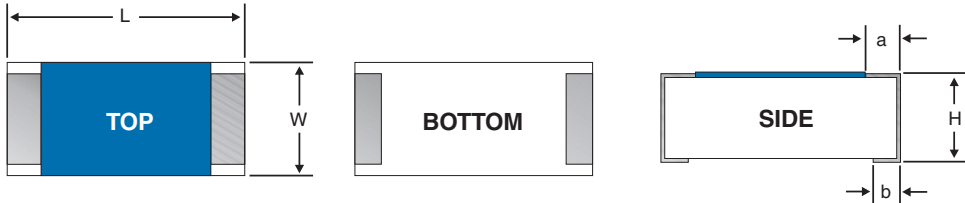


## MIL-PRF-55342 Qualified Product Listing (QPL)

Style Size	Technology	MIL-PRF-55342 Characteristic	Tolerance	Resistance Range (Ω)	Rated Voltage* (V)	Rated Power (mW)	Reliability Level	Termination Type
Style 11 RM0402	Thin Film PFC Series (TaNFilm®)	E, H, K, M	±0.1%	100R - 30K	30	50	C, M, P, R, S	Type `B`  Sn/Pb solder over nickel barrier
			±1%	49R9 - 29K				
			±2%, ±5%	51R0 - 30K				
			±10%	51R0 - 27K				
Style 12 RM0603	Thin Film PFC Series (TaNFilm®)	E, H, K, M	±0.1%, ±1%	10R0 - 59K	50	100	C, M, P, R, S, T	
			±2%, ±5%, ±10%	10R0- 56K				
Style 06 RM0705	Thin Film PFC Series (TaNFilm®)	E, H, K, M	±0.1%	10R0 - 125K	50	150	C, M, P, R, S, T	
			±1%	10R0- 124K				
			±2%, ±5%, ±10%	10R0- 120K				
Style 07 RM1206	Thin Film PFC Series (TaNFilm®)	E, H, K, M	±0.1%	100R - 500K	100	250	C, M, P, R, S, T	
			±1%	10R0- 499K				
			±2%, ±5%, ±10%	10R0- 470K				

\*Note: Voltage shall not exceed  $\sqrt{P \times R}$ .

Physical Data

					
	L	W	H	a	b
0402	0.040" ±0.002	0.021" ±0.002	0.012" ±0.003	0.008" ±0.002	0.010" ±0.002
0603	0.063" ±0.004	0.031" ±0.004	0.020" ±0.004	0.012" ±0.005	0.015" ±0.005
0805	0.081" ±0.005	0.050" ±0.005	0.020" ±0.006	0.016" ±0.008	0.016" ±0.008
1206	0.126" ±0.006	0.063" ±0.005	0.024" ±0.004	0.016" ±0.008	0.016" ±0.008

Environmental Data

Environmental Test MIL-PRF-55342	Thin Film Performance	
	MIL-PRF-55342 Characteristic H	Typical IRC ΔR
Thermal Shock	±0.25%	±0.02%
Low Temperature Operation	±0.25%	±0.01%
Short-time Overload	±0.10%	±0.01%
High Temperature Exposure	±0.50%	±0.03%
Resistance to Solder	±0.25%	±0.01%
Moisture Resistance	±0.40%	±0.03%
Life	±2.0%	±0.03%

Packaging

Standard packing for all styles is tape and reel in a quantity of 500 pieces.  
Optionally the reel quantity may be 1000 pieces, and product level T (space) has an additional option of 300 pieces per reel.  
A service of packing to waffle trays of 100 pieces is available for styles 12, 06 and 07.

### Ordering Procedure

**Example: D55342H07B1E00S** (Style RM1206,  $\pm 50\text{ppm}/^{\circ}\text{C}$ , specification number 07, SnPb termination,  $1\text{k}\Omega$ ,  $\pm 1\%$ , failure rate 0.001%/1000 hours)

D	5	5	3	4	2	H	0	7	B	1	E	0	0	S
1						2	3	4	5					6

1 Military Designator		2 Characteristic		3 Specification		4 Termination		5 Value & Tolerance	6 Product Level	
M55342	0402,	E	25ppm/°C	11	0402	B	SnPb	4 character code. Letter code marks decimal position and indicates multiplier and tolerance - see table below.	C	Non-ER
	0603,	H	50 ppm/°C	12	0603				M	1%/1000hrs
	0805	K	100 ppm/°C	06	0805				P	0.1%/1000hrs
D55342	1206	M	300 ppm/°C	07	1206				R	0.01%/1000hrs
									S	0.001%/1000hrs
									T	Space level

Value & Tolerance Code		Multiplier		
		x1	x 1000	x1000,000
Tolerance	0.1%	A	B	C
	1%	D	E	F
	2%	G	H	T
	5%	J	K	L
	10%	M	N	P

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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<a href="#">D55342E07B2B00T</a>	<a href="#">D55342K07B12E1R</a>	<a href="#">D55342E07B274AR</a>	<a href="#">M55342K06B383DR</a>	<a href="#">M55342K12B11E8R</a>
<a href="#">M55342K12B590DR</a>	<a href="#">D55342K07B2E00R</a>	<a href="#">D55342K07B6E04R</a>	<a href="#">D55342K07B13E0R</a>	<a href="#">D55342K07B332DR</a>
<a href="#">D55342K07B2E55R</a>	<a href="#">D55342K07B9E09R</a>	<a href="#">D55342K07B562DR</a>	<a href="#">D55342E07B3B09S</a>	<a href="#">D55342K07B49D9R</a>
<a href="#">M55342E11B23B4S</a>	<a href="#">M55342E11B1B93S</a>	<a href="#">M55342E11B1B02S</a>	<a href="#">D55342E07B169AR</a>	<a href="#">D55342K07B825DR</a>
<a href="#">D55342E07B1B00R</a>	<a href="#">D55342K07B4E02R</a>	<a href="#">D55342K07B160BR</a>	<a href="#">M55342E06B35E7S</a>	<a href="#">M55342E06B59E0S</a>
<a href="#">M55342E06B5E76S</a>	<a href="#">M55342E06B68E1S</a>	<a href="#">M55342E06B71E5S</a>	<a href="#">D55342H07B4E99R</a>	<a href="#">M55342K12B10E0R</a>
<a href="#">M55342K12B10D0R</a>	<a href="#">D55342K07B82E5R</a>	<a href="#">D55342E07B120BR</a>	<a href="#">D55342K07B402ER</a>	<a href="#">M55342M11B100DR</a>
<a href="#">D55342E07B12B4T</a>	<a href="#">D55342E07B14B0S</a>	<a href="#">D55342H07B3E01T</a>	<a href="#">M55342K06B51D1R</a>	<a href="#">M55342K06B47B0R</a>
<a href="#">M55342E06B7B50R</a>	<a href="#">D55342K07B10E0T</a>	<a href="#">M55342E06B232DR</a>	<a href="#">M55342E12B1B50R</a>	<a href="#">M55342K12B30K0R</a>
<a href="#">M55342E06B178AR</a>	<a href="#">M55342K06B16B0R</a>	<a href="#">M55342K06B270JR</a>	<a href="#">M55342K06B121ES</a>	<a href="#">M55342K06B39D2S</a>
<a href="#">M55342E06B8B87R</a>	<a href="#">M55342K06B3E24S</a>	<a href="#">M55342E06B392AR</a>	<a href="#">M55342K06B620JR</a>	<a href="#">M55342K06B90D9S</a>
<a href="#">M55342K06B31E6S</a>	<a href="#">M55342K06B36E5S</a>	<a href="#">M55342E12B3B40R</a>	<a href="#">M55342E06B402AR</a>	<a href="#">M55342E06B182AR</a>
<a href="#">M55342E06B75B0R</a>	<a href="#">M55342K06B43D2S</a>	<a href="#">M55342K06B2E32S</a>	<a href="#">M55342K06B61D9S</a>	<a href="#">M55342K06B39E2S</a>
<a href="#">M55342E06B26B1R</a>	<a href="#">M55342K06B51D1S</a>	<a href="#">M55342E12B7B50R</a>	<a href="#">M55342E06B383AR</a>	<a href="#">M55342K06B1B80R</a>
<a href="#">M55342K06B24E3S</a>	<a href="#">M55342K06B18E7S</a>	<a href="#">M55342K06B4B99S</a>	<a href="#">M55342E06B14D0R</a>	<a href="#">M55342K06B1E10S</a>
<a href="#">M55342K06B301DS</a>	<a href="#">M55342E06B464AR</a>	<a href="#">M55342H06B42E2S</a>	<a href="#">M55342K06B825DS</a>	<a href="#">M55342E12B240AR</a>
<a href="#">M55342K06B3K90R</a>	<a href="#">M55342H06B23E7S</a>	<a href="#">M55342K06B56E2S</a>	<a href="#">M55342E06B73D2S</a>	<a href="#">M55342K06B22E1S</a>
<a href="#">M55342K06B10J0R</a>	<a href="#">M55342K06B200DS</a>	<a href="#">M55342K06B887DS</a>	<a href="#">M55342K06B36J0R</a>	<a href="#">M55342E12B866AR</a>
<a href="#">M55342E06B374AR</a>	<a href="#">M55342E12B1E00R</a>	<a href="#">M55342K06B24D3S</a>	<a href="#">M55342K06B120BR</a>	<a href="#">M55342K06B221DS</a>
<a href="#">M55342E12B5B49R</a>	<a href="#">M55342E06B1B47R</a>	<a href="#">M55342K06B18D2S</a>	<a href="#">M55342K06B12D1S</a>	<a href="#">M55342K06B21D0S</a>