

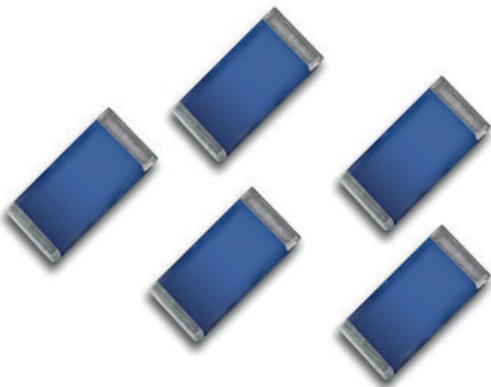
Precision Military and Space Qualified Chip Resistors



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

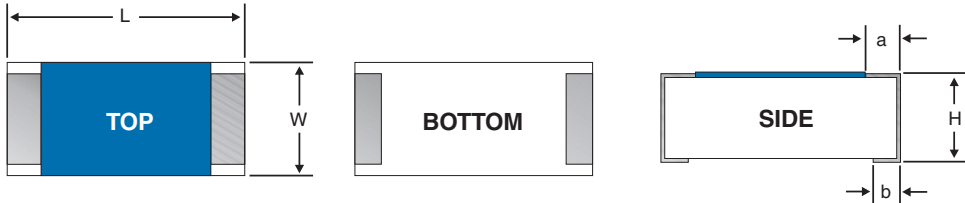


MIL-PRF-55342 Qualified Product Listing (QPL)

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:

TT Electronics:

<u>M55342M12B11D0R</u>	<u>M55342M12B11D5R</u>	<u>M55342M12B11E5R</u>	<u>M55342M12B11G0R</u>	<u>M55342M12B120GR</u>
<u>M55342M12B121DR</u>	<u>M55342M12B127AR</u>	<u>M55342M12B12B4R</u>	<u>M55342M12B12D4R</u>	<u>M55342M12B12E1R</u>
<u>M55342M12B130DR</u>	<u>M55342M12B137AR</u>	<u>M55342M12B13A0R</u>	<u>M55342M12B13B7R</u>	<u>M55342M12B13D7R</u>
<u>M55342M12B13E3R</u>	<u>M55342M12B13G0R</u>	<u>M55342M12B13K0R</u>	<u>M55342M12B140AR</u>	<u>M55342M12B143AR</u>
<u>M55342M12B143DR</u>	<u>M55342M12B147AR</u>	<u>M55342M12B147DR</u>	<u>M55342M12B14A0R</u>	<u>M55342M12B14B3R</u>
<u>M55342M12B14B7R</u>	<u>M55342M12B14E3R</u>	<u>M55342M12B150JR</u>	<u>M55342M12B15A4R</u>	<u>M55342M12B15A8R</u>
<u>M55342M12B15B4R</u>	<u>M55342M12B15G0R</u>	<u>M55342M12B169DR</u>	<u>M55342M12B16A9R</u>	<u>M55342M12B16B5R</u>
<u>M55342M12B16B9R</u>	<u>M55342M12B16D9R</u>	<u>M55342M12B16E5R</u>	<u>M55342M12B16G0R</u>	<u>M55342M12B16J0R</u>
<u>M55342M12B178DR</u>	<u>M55342M12B17A8R</u>	<u>M55342M12B180GR</u>	<u>M55342M12B180JR</u>	<u>M55342M12B187AR</u>
<u>M55342M12B187DR</u>	<u>M55342M12B18B2R</u>	<u>M55342M12B18D2R</u>	<u>M55342M12B18E7R</u>	<u>M55342M12B18K0R</u>
<u>M55342M12B191DR</u>	<u>M55342M12B196AR</u>	<u>M55342M12B19A6R</u>	<u>M55342M12B1B10R</u>	<u>M55342M12B1B13R</u>
<u>M55342M12B1B18R</u>	<u>M55342M12B1B20R</u>	<u>M55342M12B1B30R</u>	<u>M55342M12B1B80R</u>	<u>M55342M12B1B87R</u>
<u>M55342M12B1E02R</u>	<u>M55342M12B1E21R</u>	<u>M55342M12B1E27R</u>	<u>M55342M12B1E43R</u>	<u>M55342M12B1E47R</u>
<u>M55342M12B1E54R</u>	<u>M55342M12B1E62R</u>	<u>M55342M12B1E78R</u>	<u>M55342M12B1H10R</u>	<u>M55342M12B1H50R</u>
<u>M55342M12B1K20R</u>	<u>M55342M12B1K60R</u>	<u>M55342M12B1K80R</u>	<u>M55342M12B205DR</u>	<u>M55342M12B20G0R</u>
<u>M55342M12B21D5R</u>	<u>M55342M12B21E0R</u>	<u>M55342M12B220GR</u>	<u>M55342M12B221AR</u>	<u>M55342M12B22A1R</u>
<u>M55342M12B22E1R</u>	<u>M55342M12B23A2R</u>	<u>M55342M12B23A7R</u>	<u>M55342M12B23D2R</u>	<u>M55342M12B243DR</u>
<u>M55342M12B24A3R</u>	<u>M55342M12B24B3R</u>	<u>M55342M12B24D9R</u>	<u>M55342M12B24E3R</u>	<u>M55342M12B255DR</u>
<u>M55342M12B26A7R</u>	<u>M55342M12B26D7R</u>	<u>M55342M12B27B0R</u>	<u>M55342M12B27E4R</u>	<u>M55342M12B27G0R</u>
<u>M55342M12B28D0R</u>	<u>M55342M12B294DR</u>	<u>M55342M12B29D4R</u>	<u>M55342M12B2B00R</u>	<u>M55342M12B2B05R</u>