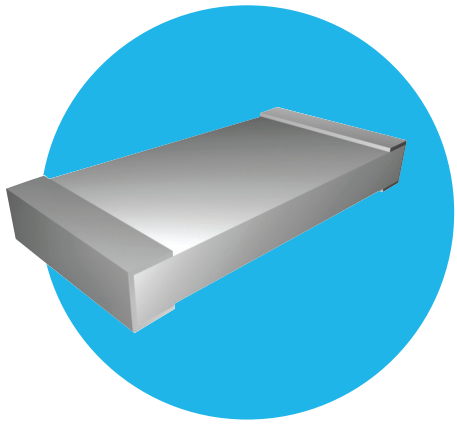
Precision Military and Space Qualified Chip Resistors



MIL-CHIP Series

- 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				

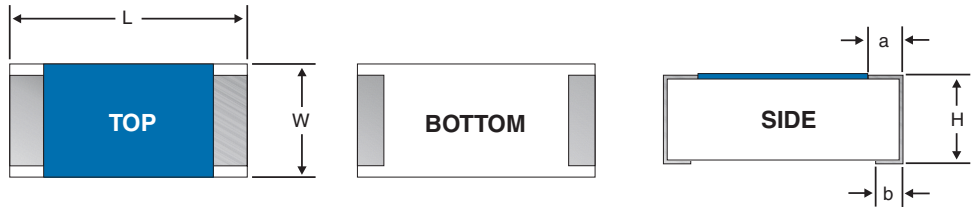
*Note: Voltage shall not exceed $\sqrt{P \times R}$.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.
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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%

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Ordering Procedure

Example: D55342H07B1E00S (Style RM1206, ±50ppm/°C, specification number 07, SnPb termination, 1kΩ, ±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, 0603, 0805	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
		H	50 ppm/°C	12	0603				M	1%/1000hrs
		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

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