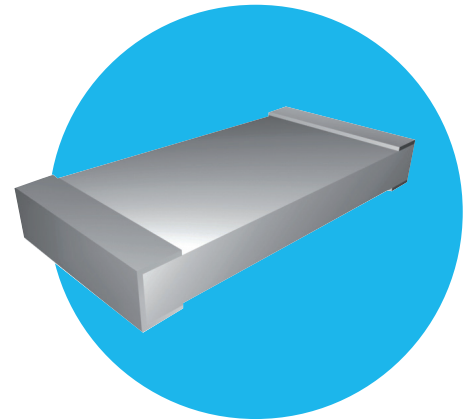


## Precision Military and Space Qualified Chip Resistors



### 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				

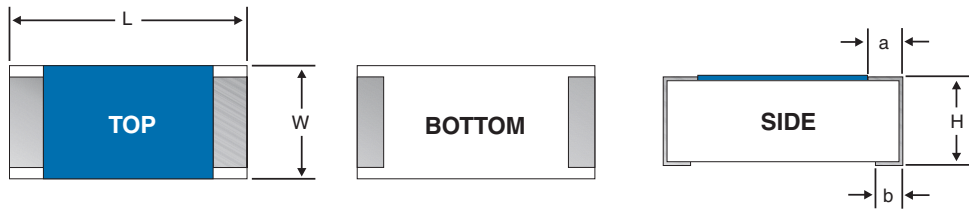
\*Note: Voltage shall not exceed  $\sqrt{P \times R}$ .

#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

MIL-CHIP Series

## Physical Data



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

**General Note**

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MIL-CHIP Series

## 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%

## MIL-PRF-55342 Ordering Data

D55342
H
07
B
1E00
S

**Military Designator** .....  
M55342 for styles RM0402, RM0603, RM0705(0805), D55342 for style RM1206

**Characteristic** .....  
E, H, K and M per MIL-PRF-55342

**Specification Number** .....  
06 for style RM0705(0805); 07 for style RM1206  
11 for Style RM0402, 12 for style RM0603

**Termination** .....  
Termination B per MIL-PRF-55342

**Resistance and Tolerance** .....  
Resistance and tolerance code per MIL-PRF-55342

**Product Level Designator** .....  
Product level C, M, P, R, S and T per MIL-PRF-55342

**Packaging**  
Standard order packaging is 8mm or 12mm tape per EIA 481. Conductive waffle pack packaging is also available.

For additional information or to discuss your specific requirements, please contact our Applications team using the contact details below.

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