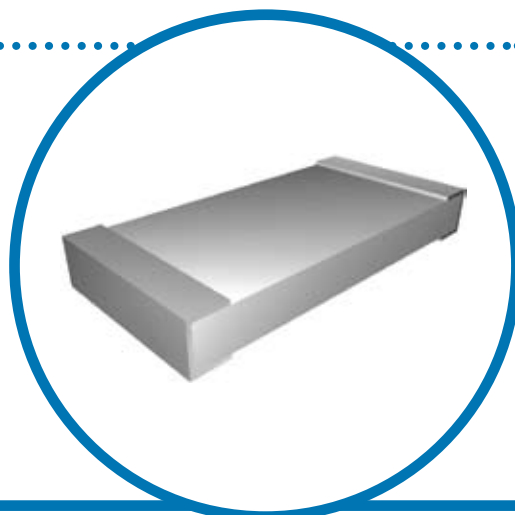


Precision Military and Space Qualified Chip Resistors

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- Now qualified to MIL-PRF-55342 Space Level T
- Seven 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

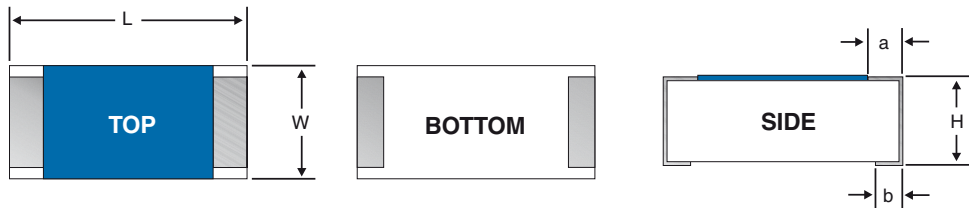
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MIL-PRF-55342 Qualified Product Listing (QPL) (continued)

Style Size	Technology	MIL-PRF-55342 Characteristic	Tolerance	Resistance Range (Ω)	Rated Power (mW)	Rated Voltage* (V)	Reliability Level	Termination Type
Style 07 RM1206	Thick Film TMC Series	K, M	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$	1R0 - 10M	250	100	C, M, P, R, T	Type 'B' Sn/Pb solder over nickel barrier

*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 (Thin Film)	0.126" ± 0.006	0.063" ± 0.005	0.024" ± 0.004	0.016" ± 0.008	0.016" ± 0.008
1206 (Thick Film)	0.126" ± 0.008	0.063" ± 0.005	0.024" ± 0.004	0.020" $+0.005/-0.010$	0.020" $+0.005/-0.010$

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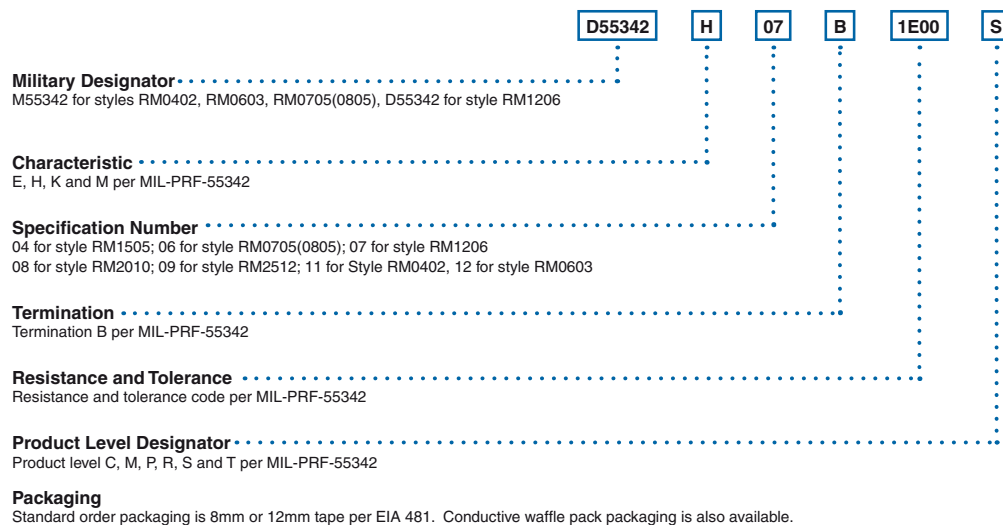


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Environmental Data

Environmental Test MIL-PRF-55342	Thick Film Performance		Thin Film Performance	
	MIL-PRF-55342 Characteristic K	Typical IRC ΔR	MIL-PRF-55342 Characteristic H	Typical IRC ΔR
Thermal Shock	$\pm 0.5\%$	$\pm 0.04\%$	$\pm 0.25\%$	$\pm 0.02\%$
Low Temperature Operation	$\pm 0.25\%$	$\pm 0.01\%$	$\pm 0.25\%$	$\pm 0.01\%$
Short-time Overload	$\pm 0.25\%$	$\pm 0.03\%$	$\pm 0.10\%$	$\pm 0.01\%$
High Temperature Exposure	$\pm 0.5\%$	$\pm 0.05\%$	$\pm 0.50\%$	$\pm 0.03\%$
Resistance to Solder	$\pm 0.25\%$	$\pm 0.09\%$	$\pm 0.25\%$	$\pm 0.01\%$
Moisture Resistance	$\pm 0.5\%$	$\pm 0.06\%$	$\pm 0.40\%$	$\pm 0.03\%$
Life	$\pm 2.0\%$	$\pm 0.10\%$	$\pm 2.0\%$	$\pm 0.03\%$

MIL-PRF-55342 Ordering Data



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

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