Precision Military Qualified Chip Resistors

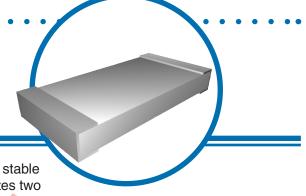


MIL-CHIP Series

- 6 industry chip sizes available
- Thin and thick film technologies
- MIL-PRF-55342 Characteristics E, H, K, and M
- MIL-PRF-55342 extended reliability levels C, M, P, R, and S

The IRC military chip resistor series provides precision and stable performance in six industry standard chip sizes. IRC now utilizes two

film technologies to expand our options in size, resistance range and tolerance. IRC's proprietary thick film technology provides extended range and lower cost while our exclusive thin film (TaNFilm® tantalum nitride) technology provides precision and superior performance in the harshest moisture environment.



Electrical Data

Style Size	Technology	MIL-PRF-55342 Characteristic	Tolerance	Resistance Range (Ω)	Power Rating (mW)	Voltage Rating* (V)	Reliability Level	Termination Type
Style 12 RM0603	Thin Film (TaNFilm [®])	E, H, K, M	±0.1%	100R - 59K	100	50	C, M, P, R, S	Type `B´ Sn/Pb solder over nickel barrier
			±1%, ±2%, ±5%, ±10%	10R0- 59K				
Style 06 RM0705	Thin Film (TaNFilm®)	E, H, K, M	±0.1%	100R - 125K	150	50	C, M, P, R, S	
			±1%, ±2%, ±5%, ±10%	10R0- 125K				
Style 04 RM1505	Thin Film (TaNFilm®)	E, H, K, M	±0.1%	100R - 125K	150	125	C, M, P, R, S	
			±1%, ±2%, ±5%, ±10%	10R0- 125K				
Style 07 RM1206	Thin Film (TaNFilm®)	E, H, K, M	±0.1%	100R - 125K	250	100	C, M, P, R, S	
			±1%, ±2%, ±5%, ±10%	10R0- 125K				
Style 07 RM1206	Thick Film	K, M	±1%, ±2%, ±5%, ±10%	5R62 - 10M	250	100		
Style 08 RM2010	Thick Film	K, M	±1%, ±2%, ±5%, ±10%	5R62 - 15M	800	150	C, M, P, R	
Style 09 RM2512	Thick Film	K, M	±1%, ±2%, ±5%, ±10%	5R62 - 15M	1000	200		

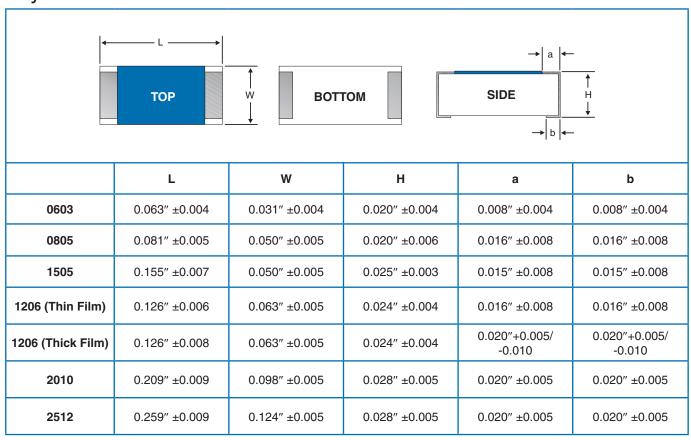
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Environmental Data

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

Physical Data



Precision Military Qualified **Chip Resistors**



Ordering Data For Performance Specification MIL-PRF-55342

	D55342	Н	07	В	1E00	S
	•	- :	:	:	•	•
Military Designator · · · · · · · · · · · · · · · · · · ·						
M55342 for styles RM0603, RM0705(0805), RM1505, RM2010 D55342 for style RM1206	and RM2512				•	
Characteristic	. .		:	:		:
E, H, K and M per MIL-PRF-55342					•	
Specification Number · · · · · · · · · · · · · · · · · · ·			:			:
04 for style RM1505; 06 for style RM0705(0805); 07 for style RM	11206			:	•	:
08 for style RM2010; 09 for style RM2512; 12 for style RM0603						
Termination						
Termination B per MIL-PRF-55342						
Resistance and Tolerance	• • • • • • •	• • • • •	• • • • •	• • • • •	:	
Product Level Designator · · · · · · · Product level C, M, P, R and S 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.