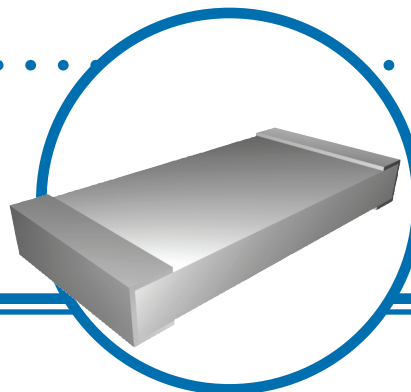


# Precision Military and Space Qualified Chip Resistors



## MIL-CHIP Series

- 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



## Electrical Data

Style Size	Technology	MIL-PRF-55342 Characteristic	Tolerance	Resistance Range (Ω)	Rated Power (mW)	Rated Voltage* (V)	Reliability Level	Termination Type
Style 11 RM0402	Thin Film (TaNFilm®)	E, H, K, M	±0.1%	100R - 30.0K	50	30	C, M, P, R, S	Type `B`  Sn/Pb solder over nickel barrier
			±1%, ±2%, ±5%, ±10%	10R0 - 30.0K				
Style 12 RM0603	Thin Film (TaNFilm®)	E, H, K, M	±0.1%	100R - 59K	100	50	C, M, P, R, S, T	
			±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, T	
			±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, T	
			±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, T	
			±1%, ±2%, ±5%, ±10%	10R0- 125K				
Style 07 RM1206	Thick Film	K, M	±1%, ±2%, ±5%, ±10%	1R00 - 10M	250	100	C, M, P, R, T	
Style 08 RM2010	Thick Film	K, M	±1%, ±2%, ±5%, ±10%	1R00 - 15M	800	150		
Style 09 RM2512	Thick Film	K, M	±1%, ±2%, ±5%, ±10%	1R0 - 15M	1000	200		

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

### General Note

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

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# Precision Military Qualified Chip Resistors



## Environmental Data

Environmental Test MIL-PRF-55342	Thick Film Performance		Thin Film Performance	
	MIL-PRF-55342 Characteristic K	Typical IRC $\Delta R$	MIL-PRF-55342 Characteristic H	Typical IRC $\Delta R$
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	$\pm 2.0\%$	$\pm 0.10\%$	$\pm 2.0\%$	$\pm 0.03\%$

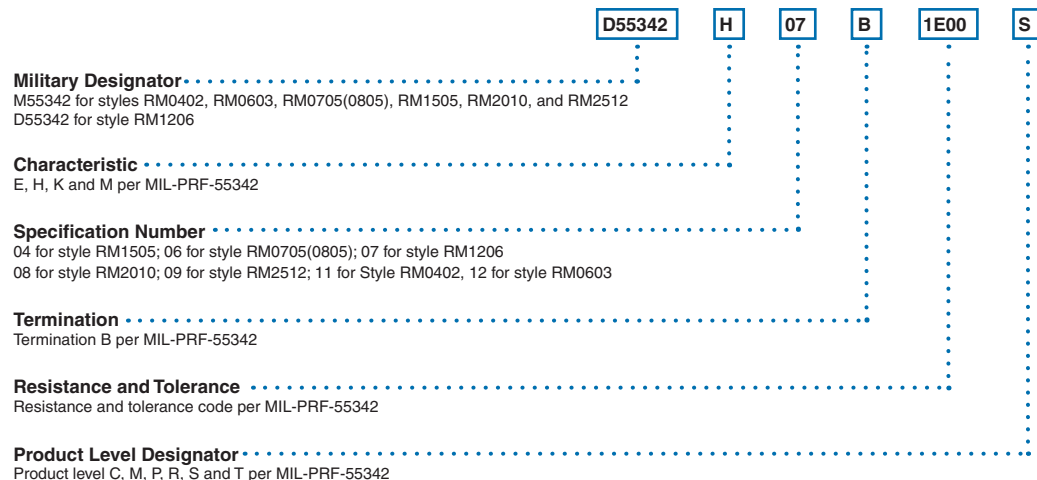
## Physical Data

	L	W	H	a	b
0402	0.040" $\pm 0.002$	0.021" $\pm 0.002$	0.012" $\pm 0.003$	0.008" $\pm 0.002$	0.010" $\pm 0.002$
0603	0.063" $\pm 0.004$	0.031" $\pm 0.004$	0.020" $\pm 0.004$	0.008" $\pm 0.004$	0.008" $\pm 0.004$
0805	0.081" $\pm 0.005$	0.050" $\pm 0.005$	0.020" $\pm 0.006$	0.016" $\pm 0.008$	0.016" $\pm 0.008$
1505	0.155" $\pm 0.007$	0.050" $\pm 0.005$	0.025" $\pm 0.003$	0.015" $\pm 0.008$	0.015" $\pm 0.008$
1206 (Thin Film)	0.126" $\pm 0.006$	0.063" $\pm 0.005$	0.024" $\pm 0.004$	0.016" $\pm 0.008$	0.016" $\pm 0.008$
1206 (Thick Film)	0.126" $\pm 0.008$	0.063" $\pm 0.005$	0.024" $\pm 0.004$	0.020" $+0.005/-0.010$	0.020" $+0.005/-0.010$
2010	0.209" $\pm 0.009$	0.098" $\pm 0.005$	0.028" $\pm 0.005$	0.020" $\pm 0.005$	0.020" $\pm 0.005$
2512	0.259" $\pm 0.009$	0.124" $\pm 0.005$	0.028" $\pm 0.005$	0.020" $\pm 0.005$	0.020" $\pm 0.005$

# Precision Military Qualified Chip Resistors



## Ordering Data For Performance Specification 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.