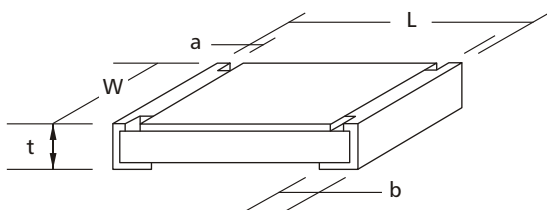


THICK FILM CHIP RESISTORS

Thick film resistors with a high power to size ratio, ideally suited to industrial and general purpose use. A range from 1 ohm to 10 Mohms and tolerances of 1% and 5%. Also including zero ohm links.

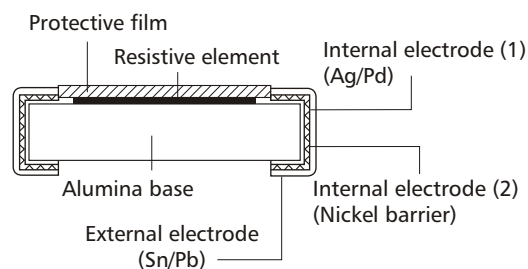
Outline Diagram



Technology and suggested applications

Precious metal terminations are screen printed onto a ceramic base and fired. The resistive element is screen printed and fired and the passivation layer added. Each resistor is trimmed to tolerance by laser. The pre-scribed tile is broken into strips, the end plating is fired on and the strips broken into individual components. Final termination is made by electroplating.

CRG chip resistors are suitable for most applications, including high frequency operation, owing to the short lead structure and low capacitance.



Ratings and Characteristics											
	UNITS	0402			0603			0805			
Rated Power @ 70 °C	Watts	0.063			0.1			0.125			
Resistance range	Min	10	1	10	10	1	10	10	1	10	
	Max	1M0	9R1	3M3	1M0	9R1	10M	1M0	9R1	10M	
Tolerance	%	1	5	5	1	5	5	1	5	5	
Code Letter		F	J	J	F	J	J	F	J	J	
Selection Series		E24	E24	E24	E24	E24	E24	E24	E24	E24	
Temperature Coefficient	ppm/°C	±100	±350	±200	±100	±350	±200	±100	±350	±200	

	UNITS	1206			2010			2512			
Rated Power @ 70 °C	Watts	0.25			0.5			1			
Resistance Range	Min	10	1	10	10	1	10	10	1	10	
	Max	1M0	9R1	10M	1M0	9R1	10M	1M0	9R1	10M	
Tolerance	%	1	5	5	1	5	5	1	5	5	
Code Letter		F	J	J	F	J	J	F	J	J	
Selection Series		E24	E24	E24	E24	E24	E24	E24	E24	E24	
Temperature Coefficient	ppm/°C	±100	±350	±200	±100	±350	±200	±100	±350	±200	

	UNITS	0402	0603	0805	1206	2010	2512
Working Voltage	Volts	50	75	150	200	200	200
Maximum Overload Voltage	Volts	100	150	300	400	400	400
Operating Temperature Range	°C	-55 to +125					
Climatic Category		55/125/56					
Insulation Resistance Dry Min	Mohms	1,000					
Stability	%	3					
Surface Temp Rise Max	°C/W	400					
Zerohm CurrentMax	Amps	1	1	2	2	2	2
ResistanceMax		<20 mohm					

Dimensions						
STYLE	L	W	t	a	b	
0402	1.0 ± 0.1	0.5 ± 0.1	0.35 ± 0.05	0.2 ± 0.1	0.25 ± 0.1	
0603	1.6 ± 0.1	0.8 ± 0.1	0.45 ± 0.1	0.3 ± 0.2	0.2 ± 0.1	
0805	2.1 ± 0.2	1.3 ± 0.1	0.5 ± 0.1	0.4 ± 0.2	0.3 ± 0.2	
1206	3.1 ± 0.2	1.55 ± 0.1	0.55 ± 0.1	0.45 ± 0.2	0.4 ± 0.2	
2010	5.0 ± 0.2	2.5 ± 0.2	0.6 ± 0.1	0.6 ± 0.2	0.6 ± 0.2	
2512	6.4 ± 0.2	3.2 ± 0.2	0.6 ± 0.1	0.7 ± 0.2	0.7 ± 0.2	