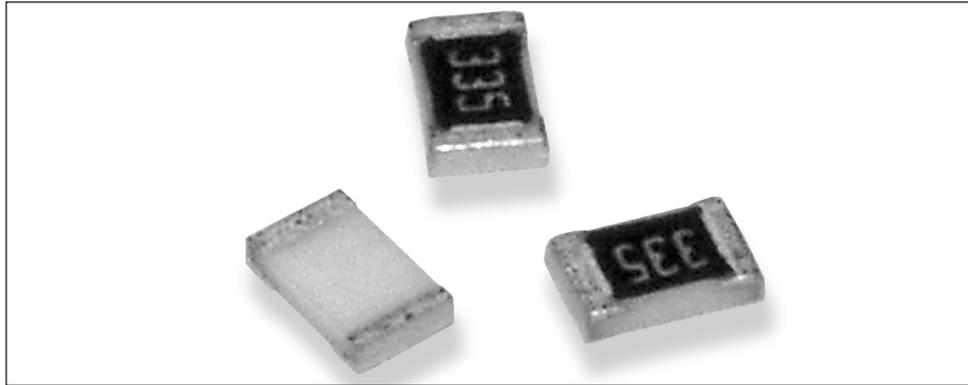


Type CPG Series

Key Features

- Case sizes 0603, 0805, 1206
- A semi-precision thick film resistor with a temperature coefficient of 50ppm/°C and tolerance down to 0.5%
- CPG chip resistors are suitable for most applications, including high frequency operation, owing to the short lead structure and low capacitance
- Particularly suitable for use where low TC or tolerance are important at a low cost

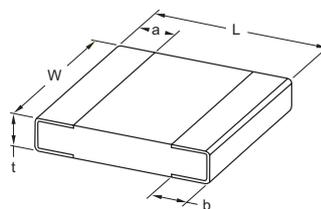


TE Connectivity is pleased to offer this Thick Film Precision Chip Resistor. With Temperature Coefficient of ± 50 PPM, and tolerance down to 0.5% this part features a highly reliable multi-layer electrode construction, along with an additional glass overcoat for improved performance and longevity.

Characteristics - Electrical

	0603		0805		1206	
Rated power @ 70°C (W)	0.1		0.125		0.25	
Resistance range (Ohms)	Min	10	10		10	
	Max	10M	10M		10M	
Tolerance %	0.5	1	0.5	1	0.5	1
	Code letter	D	F	D	F	D
Temperature coefficient (ppm/°C)	± 50		± 50		± 50	
Code letter	C		C		C	
Limiting element voltage (V)	75		150		200	
Maximum overload voltage (V)	150		300		400	
Dielectric strength min. (V)	150		300		400	
Operating temperature range (°C)	-55 to +155					
Climatic category	55/125/56					
Insulation resistance dry min (M Ω)	1000					
Stability (%)	0.5					
Surface temperature rise max. (°C)	400					

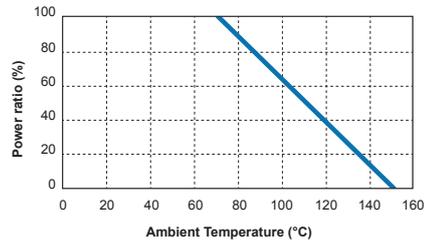
Dimensions



Style	L	W	t	a	b
0603	1.6 \pm 0.1	0.80 \pm 0.1	0.45 \pm 0.1	0.30 \pm 0.2	0.30 \pm 0.2
0805	2.0 \pm 0.1	1.25 \pm 0.1	0.50 \pm 0.1	0.35 \pm 0.2	0.40 \pm 0.2
1206	3.10 \pm 0.1	1.55 \pm 0.1	0.55 \pm 0.1	0.50 \pm 0.25	0.50 \pm 0.2

Type CPG Series

Power Derating Curve



Mounting

The resistors are suitable for processing on automatic insertion equipment

Performance characteristics

The evaluation of the performance characteristics is carried out with reference to IEC 60115-1, 60068-2-58 and JIS-C 5201-1

TEST REF	Long Term Tests $\pm(1.0\% + 0.1 \text{ ohm})$
4.23	Climatic sequence
4.24	Damp heat, steady state
4.25.1	Endurance at 70°C
4.25.3	Endurance at 125°C
TEST REF	Short Term Tests $\pm(1.0\% + 0.1 \text{ ohm})$
4.13	Overload
4.32	Adhesion
4.33	Bond strength of end face plating
4.19	Rapid change of temperature
4.18	Resistance to soldering heat

Storage

Storage Temperature $25 \pm 3^\circ\text{C}$, Humidity $<80\% \text{ RH}$. Protect from any dust, chemicals and solvent based materials. Non-adherence to this procedure could affect the solderability of this product.

How to order

CPG	0603	F	10R
Common Part	Size	Tolerance	Resistance Value
CPG - Thick Film Precision Chip Resistor	0603 0805 1206	F = $\pm 1\%$ D = $\pm 0.5\%$	10 ohms (10 ohms) 10R 1K ohms (1000 ohms) 1K0 100K ohms (10000 ohms) 100K 1M ohms (1000000ohms) 1M0