Features

- Suitable for lead free soldering.
- Compatible with wave and reflow soldering.
- RoHS compliant & Halogen Free.

Applications

- Portable Devices.
- Measurement instrument.
- Consumer Electronics.
- Computer / Motherboard.

Part Number

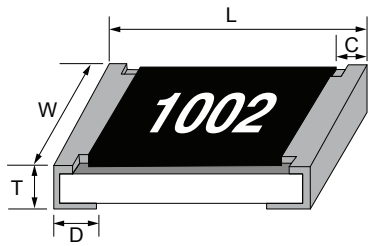
Type	Size	Tolerance	Packing	-	GM	TCR
FCF	**01:** 0201 **02:** 0402 **03:** 0603 **05:** 0805 **06:** 1206 **12:** 1210 **20:** 2010 **25:** 2512	**B:** ±0.1% **C:** ±0.25% **D:** ±0.5% **F:** ±1% **G:** ±2% **J:** ±5%	**S:** Paper tape – 1 Kpcs **T:** Paper tape – 5 Kpcs **V:** Paper tape – 10 Kpcs **W:** Paper tape – 20 Kpcs **P:** Plastic tape – 4 Kpcs **X:** Plastic tape – 8 Kpcs **Y:** Plastic tape – 16Kpcs		**1002** **examples:** 1002:100x10^2=10KΩ 103:10x10^3=10KΩ **For 0603** **E48/E96** 01C:100x10^2=10KΩ (Refer Table 1.)	-**TCR** as Rating Table **P:** 50ppm **N:**100ppm For 1Ω~10Ω 1% only.

Rating

Type	Size	Power Rating at 70°C	Max. RCWV	Max. Overload Voltage	Resistance Tolerance (%)	Temperature Coefficient (TCR; ppm/°C)	Resistance Range (Ω)		Standard Resistance Values
							Min.	Max.	
FCF01	0201	1/20W	25V	50V	±1%(F)	±200	1	3.3M	E-96
					±5%(J)		0&1	10M	E-24
FCF02	0402	1/16W	50V	100V	±0.1%(B)	±200	10	1M	E-96
					±0.5%(D)		10	1M	E-96
					±1%(F)		1	10M	E-96
					±5%(J)		0&1	10M	E-24
FCF03	0603	1/10W	50V	100V	±0.1%(B)	±50	20	510K	E-96
					±0.25%(C)				E-96
FCF05	0805	1/8W	150V	300V	±0.5%(D)				E-96
					±1%(F)				E-96
					±1%(F)	±100	1	10M	E-96
FCF06	1206	1/4W	200V	400V	±2%(G)	±200	1	10M	E-24
					±5%(J)	±200	0&1	10M	E-24
FCF12	1210	1/3W	200V	400V	±1%(F)	±100	1	10M	E-96
					±5%(J)	±200	0&1	10M	E-24
FCF20	2010	3/4W	200V	400V	±1%(F)	±100	1	10M	E-96
					±5%(J)	±200	0&1	10M	E-24
FCF25	2512	1W	200V	400V	±1%(F)	±100	1	10M	E-96
					±5%(J)	±200	0&1	10M	E-24

FCF Thick Film Lead Free Chip Resistors

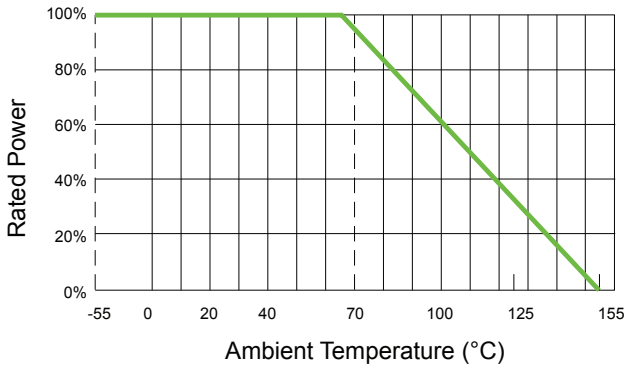
Dimension and Construction



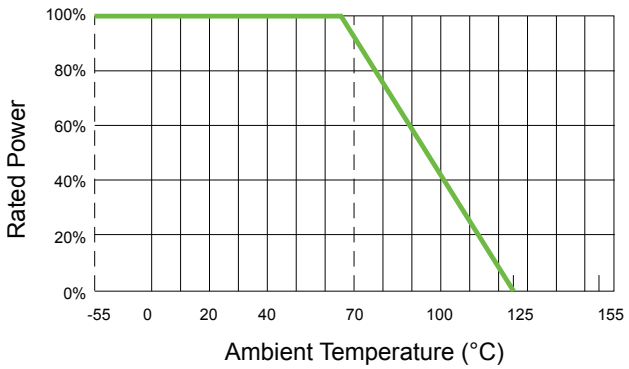
unit: mm

Type	L	W	C	D	T
0201	0.60±0.03	0.30±0.03	0.10±0.05	0.15±0.05	0.23±0.03
0402	1.00±0.05	0.50±0.05	0.20±0.10	0.25±0.10	0.35±0.05
0603	1.60±0.10	0.80±0.10	0.30±0.20	0.30±0.20	0.45±0.10
0805	2.00±0.10	1.25±0.10	0.40±0.20	0.40±0.20	0.50±0.10
1206	3.10±0.10	1.60±0.10	0.50±0.20	0.50±0.25	0.55±0.10
1210	3.10±0.10	2.60±0.15	0.50±0.25	0.50±0.25	0.55±0.10
2010	5.00±0.20	2.50±0.20	0.60±0.25	0.60±0.25	0.60±0.10
2512	6.40±0.20	3.20±0.20	0.60±0.25	0.90±0.25	0.60±0.15

Power Derating Curve



- Maximum dissipation in percentage of rated power as a function of the ambient temperature for 0402,0603,0805, 1206,1210,2010,2512



- Maximum dissipation in percentage of rated power as a function of the ambient temperature for 0201