

Fully Lead-free Thick Film Anti-Surge Chip Resistor – BCFG Series



Features

- RoHS, Halogen Free and REACH Compliance
- High component and equipment reliability
- PCB space saving
- None forbidden-materials used in products/production

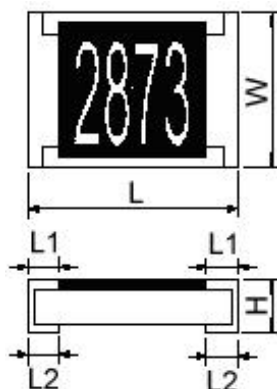
Applications

- All general purpose application

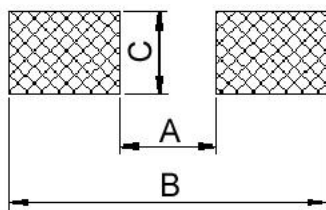
Product Identification

B	CFG	00	2512	-	1002	J	TP
Grade	Product Series	Control Code	Dimensions Code	Special Code	Nominal Resistance	Tolerance	Taping Code
	EU Pb-Free		1206		10R2=10.2Ω	J=±5%	TP (5000Pcs) : 1206~1210
	Anti-Surge		1210		1002=10KΩ	K=±10%	TE (4000Pcs) : 2010~2512
	Thick Film		2010			M=±20%	
	Chip Resistors		2512				

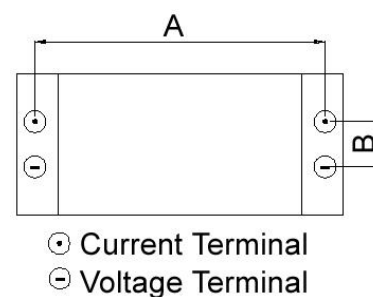
Configuration and Dimensions



Recommended Pattern



Measurement Point



Dimensions in mm

Type	Configuration and Dimensions					Recommended Pattern			Measurement Point	
	L	W	H	L1	L2	A	B	C	A	B
BCFG001206	3.05±0.10	1.55±0.10	0.50±0.10	0.45±0.20	0.35±0.15	2.2	4.2	1.6	2.90±0.05	0.35±0.05
BCFG001210	3.05±0.10	2.55±0.10	0.55±0.10	0.50±0.20	0.50±0.20	2.2	4.2	2.8	2.90±0.05	0.35±0.05
BCFG002010	5.00±0.20	2.50±0.20	0.55±0.10	0.60±0.20	0.60±0.20	3.5	6.1	2.8	4.50±0.05	1.15±0.05
BCFG002512	6.30±0.20	3.20±0.20	0.55±0.10	0.60±0.20	0.60±0.20	3.8	8	3.5	5.90±0.05	1.60±0.05

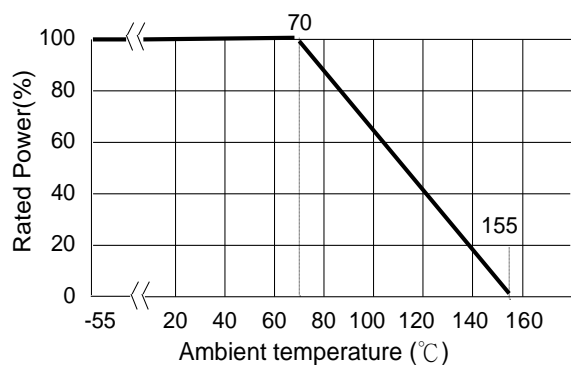
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Electrical Characteristics Resistance Range:

Type	Rated Power at 70°C (W)	Working Voltage (V) Max.	Overload Voltage (V) Max.	T.C.R (ppm/°C)	Resistance Range (Ω)
					±5%,±10%,±20% E-24
BCFG001206	1/2	200	400	+250	1 ≤ R ≤ 1M
BCFG001210	3/4	200	400	+250	1 ≤ R ≤ 1M
BCFG002010	3/4	200	400	+250	1 ≤ R ≤ 1M
BCFG002512	1	200	400	+250	1 ≤ R ≤ 1M
Operating Temperature Range					-55°C ~ +155°C

Note: When ordering, please specify tolerance code. Tolerance: J=±5%, K=±10%, M=±20%,

- Power Derating Curve: Operating Temperature Range: -55°C ~ +155°C, The power requirement is amended according to following curve chart.



- Rating Current: The resistor shall have a DC continuous working current or a rms. AC continuous working current at commercial-line frequency and wave form corresponding to the power rating, as determined from the following:

Remark: I: Rating Current.(A) , P: Rating Power.(W), R: Nominal Resistance.(Ω)

$$I = \sqrt{P/R}$$

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