

High Voltage Thick Film Chip Resistor – BCTV Series



Features

- RoHS, Halogen Free and REACH Compliance
- Pb contained in glass material of resistor element are exempted by RoHS directive

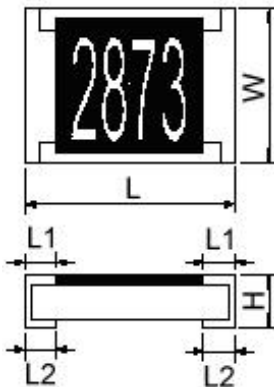
Applications

- The product is belong to the universal series

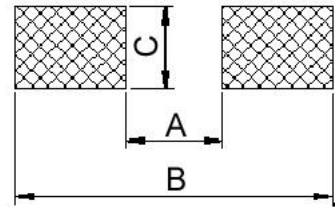
Product Identification

B	CTV	00	0603	-	1002	F	TP
Grade	Product Series	Control Code	Dimensions Code	Special Code	Nominal Resistance	Tolerance	Taping Code
	High Voltage		0603		10R2=10.2Ω	D=±0.5%	TP (5000Pcs) : 0603~1210
	Thick film		0805		1002=10KΩ	F=±1%	TE (4000Pcs) : 2010~2512
	Chip Resistors		1206			J=±5%	
			1210				
			2010				
			2512				

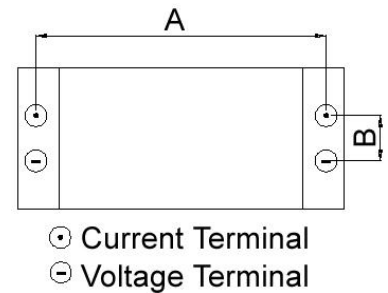
Configuration and Dimensions



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
BCTV000603	1.60±0.10	0.8±0.10	0.45±0.10	0.30±0.15	0.30±0.15	0.8	2.1	0.9	1.35±0.05	0.35±0.05
BCTV000805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.15	1.2	2.0	1.3	1.80±0.05	0.35±0.05
BCTV001206	3.05±0.10	1.55±0.10	0.50 ^{+0.1} _{-0.05}	0.45±0.20	0.35±0.15	2.2	4.2	1.6	2.90±0.05	0.35±0.05
BCTV001210	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
BCTV002010	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
BCTV002512	6.30±0.20	3.20±0.20	0.55±0.10	0.60±0.20	0.60±0.20	3.8	8.0	3.5	5.90±0.05	1.60±0.05

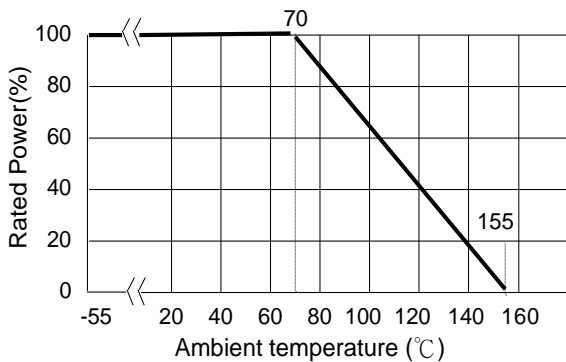
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Electrical Characteristics Resistance Range:

Type	Rated Power at 70°C (W)	Working Voltage (V) Max.	Overload Voltage (V) Max.	T.C.R (ppm/°C)	Resistance Range (Ω)		
					±0.5% E-96	±1% E-96	±5% E-24
BCTV000603	1/10	350	500	±100	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M
				±200	1 ≤ R < 10 1M < R ≤ 10M	1 ≤ R < 10 1M < R ≤ 10M	1 ≤ R < 10 1M < R ≤ 10M
BCTV000805	1/8	400	800	±100	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M
				±200	1 ≤ R < 10 1M < R ≤ 27M	1 ≤ R < 10 1M < R ≤ 27M	1 ≤ R < 10 1M < R ≤ 27M
BCTV001206	1/4	500	1000	±100	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M
				±200	1 ≤ R < 10 1M < R ≤ 27M	1 ≤ R < 10 1M < R ≤ 27M	1 ≤ R < 10 1M < R ≤ 27M
BCTV001210	1/2	500	1000	±100	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M
				±200	1 ≤ R < 10 1M < R ≤ 27M	1 ≤ R < 10 1M < R ≤ 27M	1 ≤ R < 10 1M < R ≤ 27M
BCTV002010	3/4	500	1000	±100	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M
				±200	-	-	1 ≤ R < 10 1M < R ≤ 10M
BCTV002512	1	500	1000	±100	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M	10 ≤ R ≤ 1M
				±200	-	-	1 ≤ R < 10 1M < R ≤ 10M
Operating Temperature Range				-55°C ~ +155°C			

Note: When ordering, please specify tolerance code. Tolerance: D=±0.5%, F=±1%, J=±5%

- Power Derating Curve: Operating Temperature Range: -55°C ~ +155°C,
For resistors operated in ambient temperatures above 70°C, power rating shall be derated in accordance with figure below.



- 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: E: Rated voltage.(V) , P: Rating Power.(W), R: Nominal Resistance.(Ω)

$$E = \sqrt{R \times P}$$

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