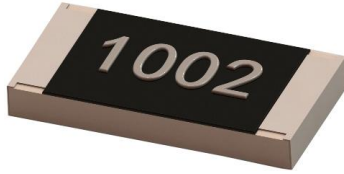


# Thick Film Anti-Sulfurated Precision Chip Resistor – BCSR Series



## Features

- RoHS, Halogen Free and REACH Compliance
- Applicable to lead-free and halogen-free Anti-Sulfuration High Voltage thick film chip resistors.
- Moisture sensitivity level: MSL 1
- Reducing environmentally hazardous wastes
- High component and equipment reliability
- Non-forbidden materials used in products/production
- Halogen-free epoxy

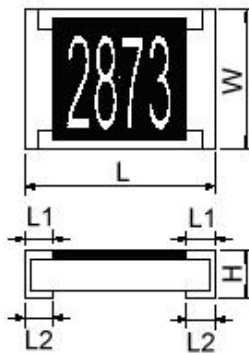
## Applications

- Industrial and medical equipment
- Test and measuring equipment
- Telecommunications

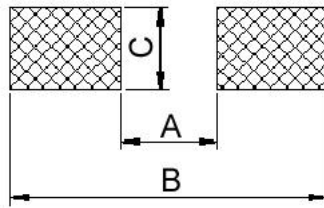
## Product Identification

B	CSR	00	0805	B	10R2	F	TP
Grade	Product Series	Control Code	Dimensions Code	Vulcanization Test	Nominal Resistance	Tolerance	Taping Code
	Anti-Sulfurated		0201	105°C	10R2=10.2Ω	D=±0.5%	TH (10000Pcs) : 0201~0402
	Precision		0402		1002=10KΩ	F=±1.0%	TP (5000Pcs) : 0603~1210
	Thin Film		0603				TE (4000Pcs) : 2010~2512
	Chip Resistors		0805				
			1206				
			1210				
			2010				
			2512				

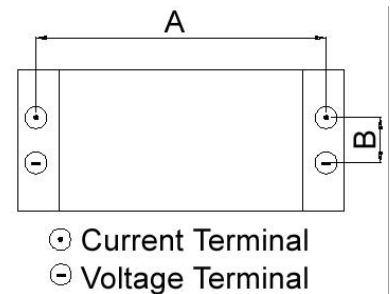
## Configuration and Dimensions



## 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
BCSR000201	0.60±0.03	0.30±0.03	0.23±0.03	0.10±0.05	0.15±0.05	0.3	1.0	0.4	0.44±0.05	0.22±0.05
BCSR000402	1.00±0.10	0.50±0.05	0.30±0.05	0.20±0.10	0.25±0.10	0.5	1.5	0.6	0.80±0.05	0.24±0.05
BCSR000603	1.60±0.10	0.80±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
BCSR000805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.20	1.2	3.0	1.3	1.80±0.05	0.35±0.05
BCSR001206	3.05±0.10	1.55±0.10	0.50±0.10	0.45±0.20	0.35±0.20	2.2	4.2	1.6	2.90±0.05	0.35±0.05
BCSR001210	3.05±0.10	2.55±0.10	0.55±0.10	0.50±0.10	0.50±0.20	2.2	4.2	2.8	2.90±0.05	0.35±0.05
BCSR002010	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
BCSR002512	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

# Thick Film Anti-Sulfurated Precision Chip Resistor – BCSR Series

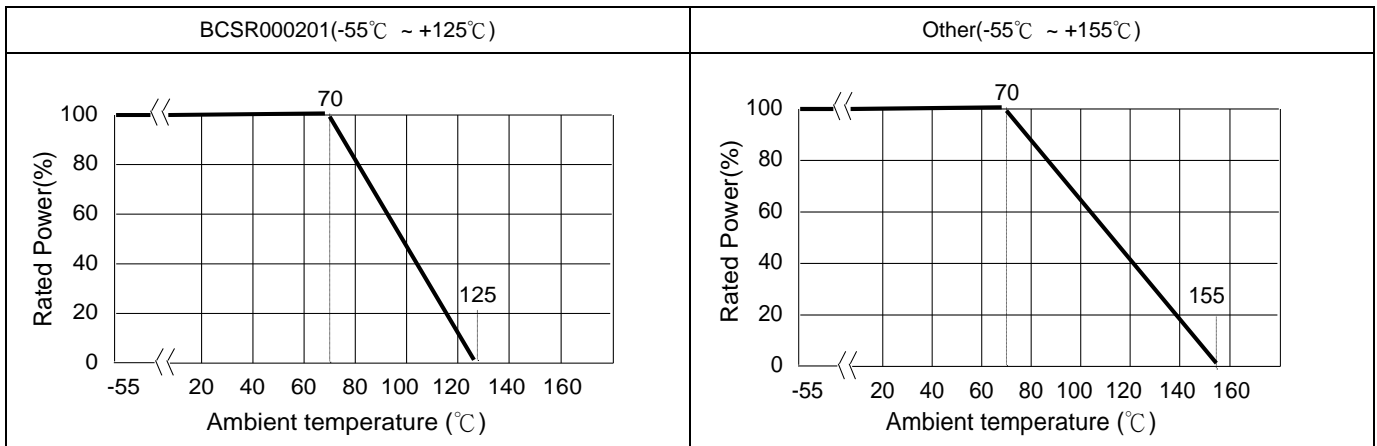
## Electrical Characteristics Resistance Range:

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%,±1%, E-24 · E-96
BCSR000201	1/20	30	60	±100	100 ≤ R < 1M
BCSR000402	1/16	50	100	±50	100 ≤ R < 1M
BCSR0000603	1/10	75	150	±50	100 ≤ R < 1M
BCSR000805	1/8	150	300	±50	10 ≤ R < 1M
BCSR001206	1/4	200	400	±50	10 ≤ R < 1M
BCSR001210	1/2	200	400	±50	10 ≤ R < 1M
BCSR002010	3/4	200	400	±50	100 ≤ R < 1M
BCSR002512	1	200	400	±50	10 ≤ R < 1M
Operating Temperature Range				-55°C ~ +155°C (0201: -55 ~ +125°C)	

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

- Power Derating Curve: Operating Temperature Range: -55°C ~ +155°C, or (0201: -55°C ~ +125°C)

For resistors operated in ambient temperatures 70°C, power rating shall be derated in accordance with the curve 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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