Anti-Sulfurated Thick Film Chip Resistor – BCTS 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

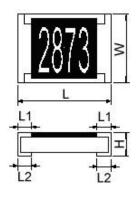
Product Identification

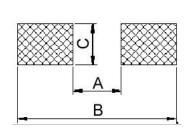
В	CTS 00		0805	-	10R2	F	TP			
Grade	Product Series	Control Code	Dimensions Code	Special Code	Nominal Resistance	Tolerance	Taping Code			
	Anti-Sulfurated		0201		10R2=10.2Ω	B=±0.1%	TH (10000Pcs):0201~0402			
	Thick film		0402	ä	1002=10ΚΩ	D=±0.5%	TP (5000Pcs): 0603~1210			
	Chip Resistors		0603	ē.	.00	F=±1%	TE (4000Pcs): 2010~2512			
			0805	7) G		J=±5%	0 			
			1206							
			1210	â						
			2010	ē.						
			2512	56 64						

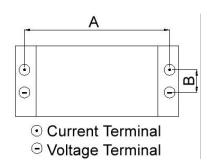
Configuration and Dimensions

Recommended Pattern

Measurement Point







Dimensions in mm

_	Configuration and Dimensions						mended	Pattern	Measurement Point		
Туре	L	w	н	L1	L2	Α	В	С	Α	В	
BCTS000201	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	
BCTS000402	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	
BCTS000603	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	
BCTS000805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.15	1.2	3.0	1.3	1.80±0.05	0.35±0.05	
BCTS001206	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	
BCTS001210	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	
BCTS002010	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	
BCTS002512	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	



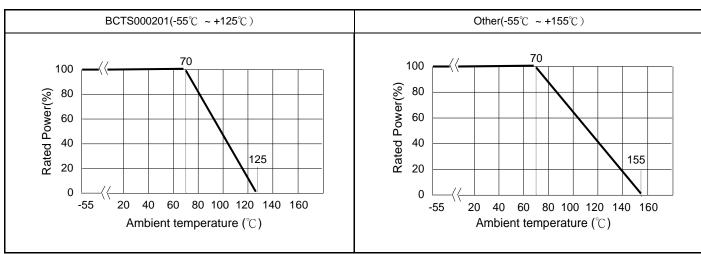
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Electrical Characteristics Resistance Range:

	Rated Power at 70℃ (W)	Working Voltage (V) Max.	Overload Voltage (V) Max.		Resistance Range (Ω)				JUMPER Rated		JUMPER Resistance	
Туре				T.C.R (ppm/℃)	±0.1%	±0.5% E-24 \ E-96	±1% E-24 \ E-96	±5% E-24	Current (A) 105℃		Value (mΩ) Max. 105℃	
					E-24 · E-96							
	` ,								±1%	±5%	±1%	±5%
BCTS000201	1/20	25	50	-200+400		1≦R<10	1≦R<10	1≦R<10	0.5	0.5	50	100
				±200		10≦R≦10M	10≦R≦10M	10≦R≦10M				
BCTS000402	1/16	50	100	±100		10≦R≦1M	10≦R≦10M	10≦R≦20M	1.5	1	50	100
				±200		-	1≦R<10	1≦R<10				
BCTS000603	1/10	75	150	±100	100≦R≦1M	10≦R≦1M	10≦R≦10M	10≦R≦20M	2	1	50	100
				±200		1≦R<10	1≦R<10	1≦R<10				
BCTS000805	1/8	150	300	±100		10≦R≦1M	10≦R≦10M	10≦R≦20M	2.5	2	50	100
				±200		1≦R<10	1≦R<10	1≦R<10				
BCTS001206	1/4	200	400	±100		10≦R≦1M	10≦R≦10M	10≦R≦20M	3.5	2	50	100
				±200		1≦R<10	1≦R<10	1≦R<10				
BCTS001210	1/2	200	400	±100		10≦R≦1M	10≦R≦10M	10≦R≦20M	4	2	50	100
				±200		1≦R<10	1≦R<10	1≦R<10				
BCTS002010	0/4	200	400	±100		10≦R<1M	10≦R≦10M	10≦R≦20M	5	2	50	100
	3/4			±200		1≦R<10	1≦R<10	1≦R<10				
BCTS002512	1	200	400	±100		10≦R≦1M	10≦R≦10M	10≦R≦20M		2	50	100
				±200		1≦R<10	1≦R<10	1≦R<10	7			
Ope	erature Rang	e	-55°C ~+155°C (0201:-55°C ~+125°C)									

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1%, D=±0.5%, F=±1%, J=±5%

Power Derating Curve: Operating Temperature Range: -55° ~ +155° or (0201:-55° ~ +125°)
For resistors operated in ambient temperatures 70°C, power rating shell 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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