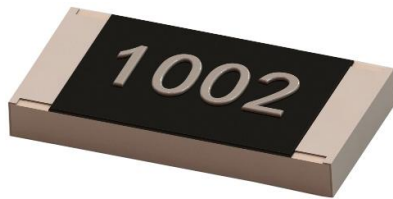


Thin Film Chip Resistor – BCTX Series



Features

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

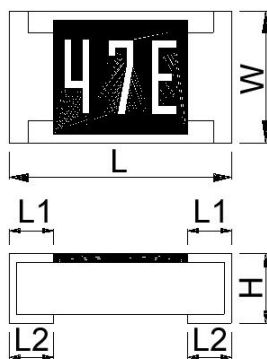
Applications

- All general purpose application

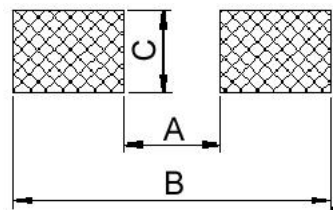
Product Identification

B	CTX	00	0805	C	10R2	F	TP
Grade	Product Series	Control Code	Dimensions Code	TCR ppm ^o C	Nominal Resistance	Tolerance	Taping Code
	Thin Film Chip Resistors		0201	B=±10	10R2=10.2Ω	B= ±0.1%	TH (10000Pcs) : 0201~0402
			0402	C=±15	1002=10KΩ	C=±0.25%	TP (5000Pcs) : 0603~1210
			0603	D=±25		D=±0.5%	TE (4000Pcs) : 2010~2512
			0805	E=±50		F= ±1.0%	
			1206				
			1210				
			2010				
			2512				

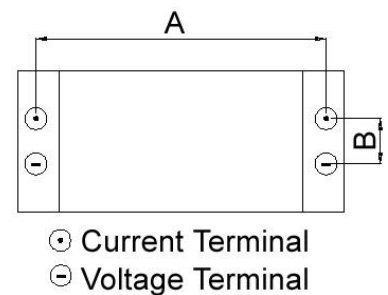
Configuration and Dimensions



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
BCTX000201	0.60±0.03	0.30±0.03	0.23±0.05	0.10±0.05	0.15±0.05	0.3	1	0.4	0.44±0.05	0.22±0.05
BCTX000402	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
BCTX000603	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
BCTX000805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.15	1.2	3	1.3	1.80±0.05	0.34±0.05
BCTX001206	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
BCTX001210	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
BCTX002010	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
BCTX002512	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

Thin Film Chip Resistor – BCTX Series

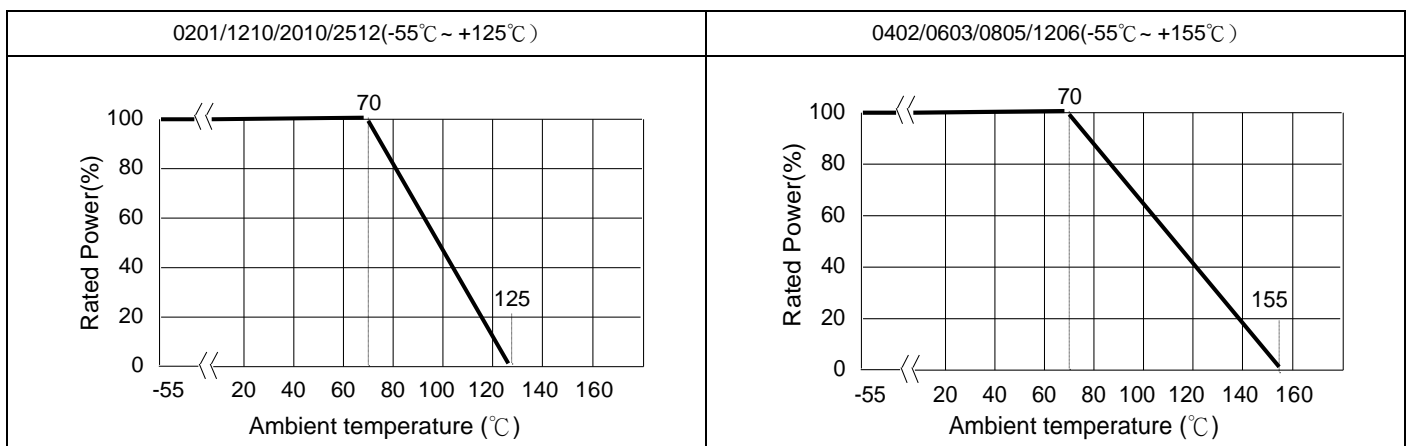
Electrical Characteristics Resistance Range: $\geq 1\Omega$ & 0Ω

Type	Rated Power at 70°C (W)	Working Voltage (V) Max.	Overload Voltage (V) Max.	T.C.R (ppm/°C)	Resistance Range (Ω)	
					$\pm 0.1\%, \pm 0.25\%$ E-24、E-96	$\pm 0.5\%, \pm 1\%$ E-24、E-96
BCTX000201	1/20	25	50	± 25	22~75K	
				± 50	22~75K	
BCTX000402	1/16	50	100	$\pm 10、\pm 15$	20~70K	-
				± 25	4.7~240K	
				± 50	4.7~240K	
BCTX000603	1/10	75	150	$\pm 10、\pm 15$	4.7~332K	-
				± 25	1~1M	
				± 50	1~1M	
BCTX000805	1/8	150	300	$\pm 10、\pm 15$	4.7~800K	-
				± 25	1~1.5M	
				± 50	1~1.5M	
BCTX001206	1/4	200	400	$\pm 10、\pm 15$	5.6~1M	
				± 25	1~1.5M	
				± 50	1~1.5M	
BCTX001210	1/4	200	400	$\pm 10、\pm 15$	4.7~100K	-
				± 25	4.7~1M	
				± 50	4.7~1M	
BCTX002010	1/2	200	400	$\pm 10、\pm 15$	4.7~100K	-
				± 25	4.7~1M	
				± 50	4.7~1M	
BCTX002512	3/4	200	400	$\pm 10、\pm 15$	4.7~100K	-
				± 25	4.7~1M	
				± 50	4.7~1M	
Operating Temperature Range				0201/1210/2010/2512(-55°C ~ +125°C) 0402/0603/0805/1206(-55°C ~ +155°C)		

Note: When ordering, please specify tolerance code. Tolerance: B= $\pm 0.1\%$, C= $\pm 0.25\%$, D= $\pm 0.5\%$, F= $\pm 1\%$,

- T.C.R: B= ± 10 ppm/°C, C= ± 15 ppm/°C, D= ± 25 ppm/°C, E= ± 50 ppm/°C,
- Power Derating Curve: Operating Temperature Range: -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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