

Metal Film Low Resistance Chip Resistor – BCCX 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

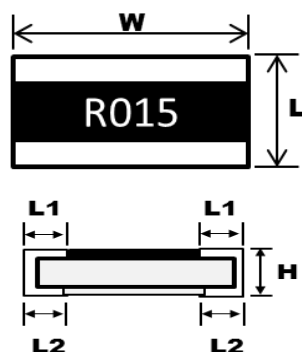
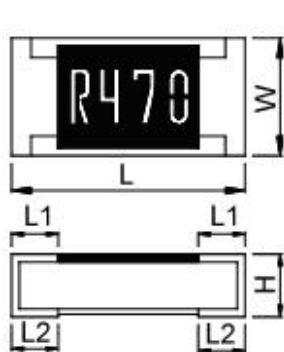
Product Identification

B	CCX	00	0805	G	R100	F	TP
Grade	Product Series	Control Code	Dimensions Code	Rated Power	Nominal Resistance	Tolerance	Taping Code
	Low Resistance Thin Film Chip Resistors		0603	I=1/8W	R100=0.1Ω	D=±0.5%	TP (5000Pcs) : 0603~1206
			0805	G=1/4W	R20X=0.2Ω	F=±1%	TP (5000Pcs) : 0612
			1206	F=1/3W		G=±2%	TE (4000Pcs) : 2512
			2512	C=1/2W		J=±5%	
			0612	1=1.0W			
				2=2.0W			

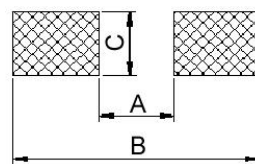
Configuration and Dimensions

BCCX000603~2512

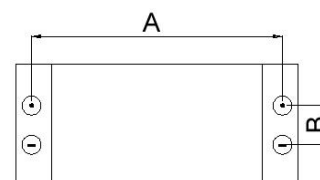
BCCX000612



Recommended Pattern



Measurement Point



⊕ Current Terminal
⊖ Voltage Terminal

Dimensions in mm

Type	Configuration and Dimensions					Recommended Pattern			Measurement Point	
	L	W	H	L1	L2	A	B	C	A	B
BCCX000603	1.60±0.10	0.80±0.10	0.45±0.10	0.25±0.15	0.30±0.15	0.8	2.1	0.9	1.14±0.05	0.46±0.05
BCCX000805	2.00±0.10	1.25±0.10	0.55±0.10	0.35±0.20	0.35±0.20	1.2	3	1.3	1.8±0.05	0.35±0.05
BCCX001206	3.05±0.10	1.55±0.10	0.55±0.10	0.50±0.20	0.50±0.20	2.2	4.2	1.6	2.9±0.05	0.35±0.05
BCCX002512	6.30±0.20	3.20±0.20	0.55±0.10	0.65±0.20	0.65±0.20	3.8	8	3.5	5.9±0.05	1.60±0.05
BCCX000612	1.55±0.10	3.1±0.10	0.55±0.10	0.30±0.20	0.40±0.20	0.5	2.9	3.2	1.04±0.05	0.84±0.05

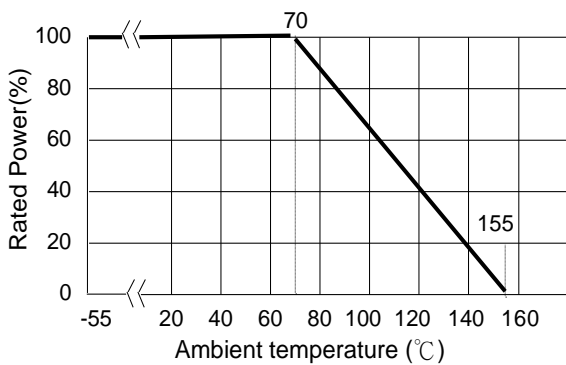
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Electrical Characteristics Resistance Range:

Type	Rated Power at 70°C (W)	Rated Current (A) Max.	Overload Current (A) Max.	T.C.R (ppm/°C)	Resistance Range (mΩ)	
					±0.5%	±1%,±2%,±5%
BCCX000603	1/3	1.8	4	±75	100 ≤ R ≤ 360	
BCCX000805	1/8	1.58	3.54	+200	50 ≤ R < 100	
				±75	100 ≤ R < 1000	
	1/4	2.24	5	+200	50 ≤ R < 100	
				±75	100 ≤ R < 1000	
	1/2	3.16	7.07	+200	50 ≤ R < 100	
				±75	100 ≤ R < 1000	
BCCX001206	1/4&1/3	2.72	6.09	±300	-	45 ≤ R < 50
				±200	50 ≤ R < 100	
				±75	100 ≤ R ≤ 1000	
	1/2	3.33	7.45	±300	-	45 ≤ R < 50
				±200	50 ≤ R < 100	
				±75	100 ≤ R ≤ 1000	
	1	4.71	10.54	±300	-	45 ≤ R < 50
				±200	50 ≤ R < 100	
				±75	100 ≤ R ≤ 1000	
	BCCX002512	1	3.16	7.07	±75	100 ≤ R ≤ 1000
2		4.47	10	±75	100 ≤ R ≤ 1000	
BCCX000612	1	8.1	18.2	±100	-	15 ≤ R ≤ 51
Operating Temperature Range				-55°C ~ +155°C		

Note: When ordering, please specify tolerance code. Tolerance: D=±0.5%, F=±1%, G=±2%, J=±5%

- 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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