

Fully Lead-free Thick Film Chip Resistor – BCCF Series



Features

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

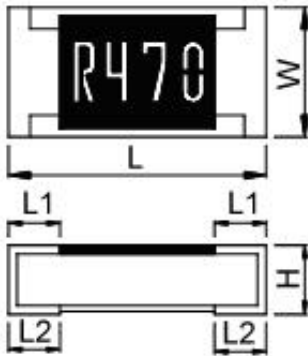
Applications

- All general purpose application

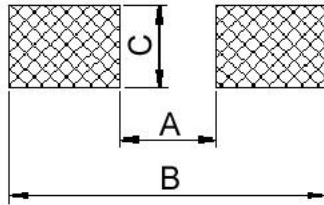
Product Identification

B	CCF	00	0805	-	R100	F	TP
Grade	Product Series	Control Code	Dimensions Code	Special Code	Nominal Resistance	Tolerance	Taping Code
	Fully Lead-Free		0402		R100=0.1Ω	F=±1%	TH (10000Pcs) : 0402
	Low Resistance		0603		R20X=0.2Ω	J=±5%	TP (5000Pcs) : 0603~1210
	Thick Film		0805				TE (4000Pcs) : 2010~2512
	Chip Resistors		1206				
			1210				
			2010				
			2512				

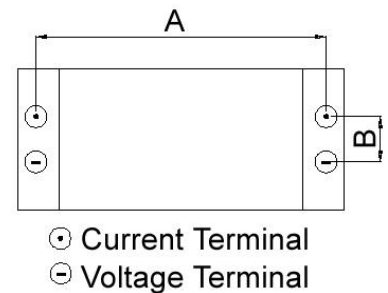
Configuration and Dimensions



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
BCCF000402	1.00±0.10	0.50±0.05	0.30±0.10	0.25±0.10	0.20±0.15	0.5	1.5	0.6	0.80±0.05	0.24±0.05
BCCF000603	1.60±0.10	0.80±0.10	0.45±0.10	0.25±0.15	0.35±0.15	0.8	2.1	0.9	1.35±0.05	0.35±0.05
BCCF000805	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
BCCF001206	3.05±0.10	1.55±0.10	0.50±0.10	0.45±0.20	0.55±0.25	2.2	4.2	1.6	2.90±0.05	0.35±0.05
BCCF001210	3.05±0.10	2.55±0.10	0.55±0.10	0.50±0.20	0.50±0.25	2.2	4.2	2.8	2.90±0.05	0.35±0.05
BCCF002010	5.00±0.10	2.50±0.20	0.60±0.10	0.65±0.20	0.65±0.20	3.5	6.1	2.8	4.50±0.05	1.15±0.05
BCCF002512	6.30±0.20	3.20±0.20	0.60±0.10	0.65±0.20	0.65±0.20	3.8	8.0	3.5	5.90±0.05	1.60±0.05

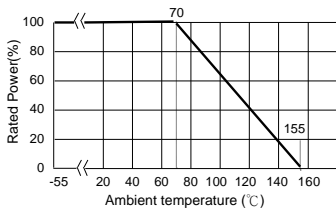
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Electrical Characteristics Resistance Range:

Type	Rated Power at 70°C (W)	Rated Current (A) Max.	Overload Current (A) Max.	T.C.R (ppm/°C)	Resistance Range (mΩ)
					±1% , ±5% E-24 · E-96
BCCF000402	1/16	1.58	3.95	±1500	25 ≤ R < 37
				±1200	37 ≤ R < 60
				±600	60 ≤ R < 200
				±300	200 ≤ R < 400
				±250	400 ≤ R < 600
				±200	600 ≤ R < 1000
BCCF000603	1/10	3.16	7.91	±1500	10 ≤ R < 37
				±1200	37 ≤ R < 60
				±600	60 ≤ R < 100
				±300	100 ≤ R < 200
				±600	200 ≤ R < 500
				±400	500 ≤ R < 1000
BCCF000805	1/8	3.53	8.82	±1500	10 ≤ R < 19
				±1200	19 ≤ R < 33
				±800	33 ≤ R < 50
				±600	50 ≤ R < 100
				±200	100 ≤ R < 1000
BCCF001206	1/3	5.77	14.42	±1500	10 ≤ R < 19
				±1200	19 ≤ R < 25
				±1000	25 ≤ R < 50
				±600	50 ≤ R < 100
				±200	100 ≤ R < 1000
BCCF001210	1/2	7.07	17.67	±1500	10 ≤ R < 19
				±1000	19 ≤ R < 25
				±700	25 ≤ R < 50
				±400	50 ≤ R < 100
				±200	100 ≤ R < 1000
BCCF002010	3/4	8.66	21.65	±1500	10 ≤ R < 19
				±1200	19 ≤ R < 25
				±900	25 ≤ R < 50
				±500	50 ≤ R < 100
				±200	100 ≤ R < 1000
BCCF002512	1	10	25	±1500	10 ≤ R < 19
				±1200	19 ≤ R < 25
				±900	25 ≤ R < 50
				±500	50 ≤ R < 100
				±200	100 ≤ R < 1000
Operating Temperature Range				-55°C ~ +155°C	

Note: When ordering, please specify tolerance code. Tolerance: 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: I: Rating Current.(A) , P: Rating Power.(W), R: Nominal Resistance.(Ω)

$$I = \sqrt{P/R}$$

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