

Thick Film Current Sensing High Power Chip Resistor – BCCH Series



Features

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

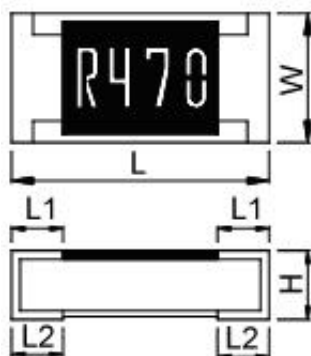
Applications

- All general purpose application

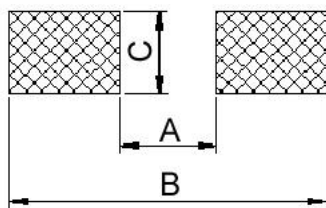
Product Identification

B	CCH	00	0805	-	R100	F	TP
Grade	Product Series	Control Code	Dimensions Code	Special Code	Nominal Resistance	Tolerance	Taping Code
	High Power		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				

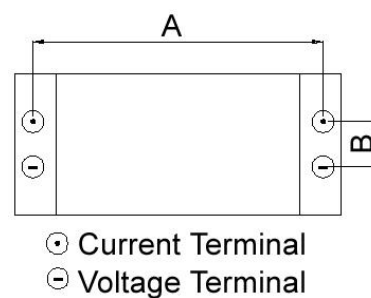
Configuration and Dimensions



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
BCCH000402	1.00±0.10	0.50±0.10	0.35±0.10	0.25±0.10	0.20±0.15	0.5	1.5	0.6	0.80±0.05	0.22±0.05
BCCH000603	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	0.24±0.05
BCCH000805	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
BCCH001206	3.05±0.10	1.55±0.10	0.50±0.10	0.45±0.20	0.65±0.15	2.2	4.2	1.6	2.90±0.05	0.35±0.05
BCCH001210	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
BCCH002010	4.95±0.10	2.45±0.10	0.70±0.10	0.65±0.20	0.70±0.20	3.5	6.1	2.8	4.50±0.05	1.15±0.05
BCCH002512	6.40±0.20	3.20±0.20	0.70±0.10	0.72±0.20	0.69±0.20	3.8	8.0	3.5	5.90±0.05	1.60±0.05

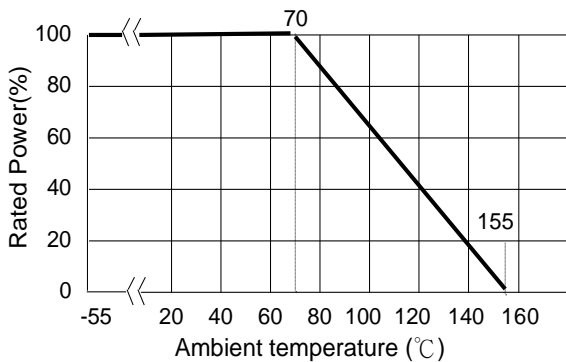
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Electrical Characteristics Resistance Range:

Type	Rated Power at 70°C (W)	Rated Current (A) Max.	Overload Current (A) Max.	T.C.R (ppm/°C)	Resistance Range (mΩ)	
					±1% E-24、E-96	±5% E-24
BCCH000402	1/8	2.23	5.59	±1500	25 ≤ R < 37	
				±1200	37 ≤ R < 60	
				±600	60 ≤ R < 200	
				±300	200 ≤ R < 400	
				±250	400 ≤ R < 600	
				±200	600 ≤ R < 1000	
BCCH000603	1/5	4.47	11.18	±1500	10 ≤ R < 37	
				±1200	37 ≤ R < 60	
				±600	60 ≤ R < 100	
				±300	100 ≤ R < 200	
				±600	200 ≤ R < 500	
				±400	500 ≤ R < 1000	
BCCH000805	1/4	5	12.5	±1500	10 ≤ R < 19	
				±1200	19 ≤ R < 33	
				±800	33 ≤ R < 50	
				±600	50 ≤ R < 100	
				±200	100 ≤ R < 1000	
BCCH001206	1/2	7.07	17.68	±1500	10 ≤ R < 19	
				±1200	19 ≤ R < 25	
				±1000	25 ≤ R < 50	
				±600	50 ≤ R < 100	
				±200	100 ≤ R < 1000	
BCCH001210	3/4	8.66	21.6	±1000	10 ≤ R < 25	
				±700	25 ≤ R < 50	
				±400	50 ≤ R < 100	
				±200	100 ≤ R < 1000	
BCCH002010	1	4.47	11.18	±200	50 ≤ R < 150	
				±100	150 ≤ R < 1000	
BCCH002512	2	6.32	15.81	±200	50 ≤ R < 150	
				±100	150 ≤ 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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