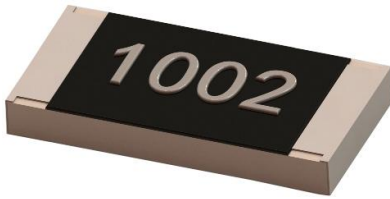


# Fully Lead-free High Power Thick Film Chip Resistor – BCFH Series



## Features

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

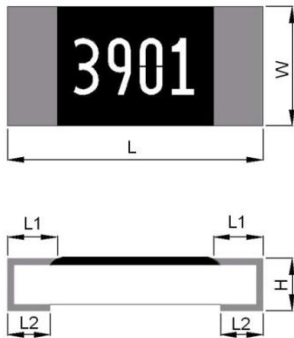
## Applications

- All general purpose application

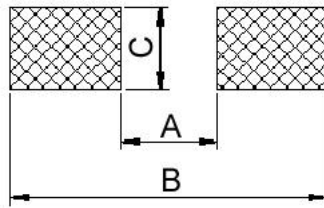
## Product Identification

B	CFH	00	1206	-	10R2	F	TP
Grade	Product Series	Control Code	Dimensions Code	Special Code	Nominal Resistance	Tolerance	Taping Code
	Fully Lead-Free		1206		10R2=10.2Ω	F=±1%	TP (5000Pcs) : 1206-1210
	High Power		1210		1002=10KΩ	J=±5%	TE (4000Pcs) : 2010-2512
	Thick Film		2010				
	Chip Resistors		2512				

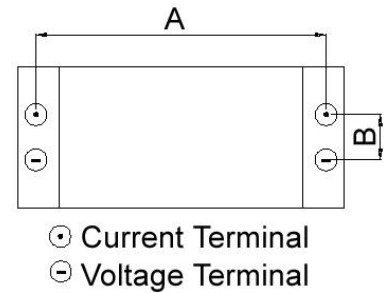
## Configuration and Dimensions



## 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
BCFH001206	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
BCFH001210	3.05±0.10	2.55±0.10	0.50±0.10	0.50±0.20	0.50±0.20	2.2	4.2	2.8	2.90±0.05	0.35±0.05
BCFH002010	4.95±0.20	2.45±0.20	0.70±0.10	0.65±0.20	0.60±0.20	3.5	6.1	2.8	4.50±0.05	1.15±0.05
BCFH002512	6.40±0.20	3.20±0.20	0.70±0.10	0.60±0.20	1.25±0.20	3.8	8	3.5	5.90±0.05	1.60±0.05

# Fully Lead-free High Power Thick Film Chip Resistor – BCFH Series

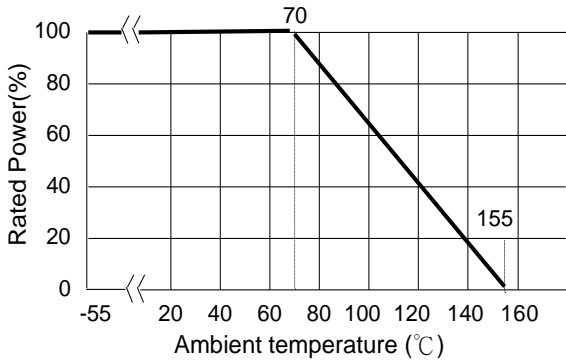
## Electrical Characteristics Resistance Range:

Type	Rated Power at 70°C (W)	Working Voltage (V) Max.	Overload Voltage (V) Max.	T.C.R (ppm/°C)	Resistance Range (Ω)	
					±1% E-24 · E-96	±5% E-24
BCFH001206	1/2	200	400	±150	$12 \leq R \leq 2.2M$	$1 \leq R \leq 2.2M$
				±250	$2.2 < R \leq 10M$	$2.2 < R \leq 10M$
BCFH001210	3/4	200	400	±150	$1 \leq R \leq 2.2$	$1 \leq R \leq 2.2M$
				±250	$2.2 < R \leq 10M$	$2.2 < R \leq 10M$
BCFH002010	1	200	400	±150	$1 \leq R \leq 2.2$	$1 \leq R \leq 2.2M$
				±250	$2.2 < R \leq 10M$	$2.2 < R \leq 10M$
BCFH002512	3/2	200	400	±150	$1 \leq R \leq 2.2$	$1 \leq R \leq 2.2M$
				±250	$2.2 < R \leq 10M$	$2.2 < R \leq 10M$
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

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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