

# **Multilayer Chip Ferrite Bead**

### **HPCB-EPB Series**



### **FEATURES**

- ◆ Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- ◆ Monolithic structure for excellent reliability
- ◆ Smaller DC resistance and larger allowable current than PB series
- Can be used in a wide range of frequency to suppress EMI

## **APPLICATIONS**

Noise suppression for power lines or large current signal lines of electric equipments, such as communication equipments, computers, A/V equipments, auto electronics.

# PRODUCT IDENTIFICATION

<b>HPCB</b>	=	$\overline{\mathbf{FU}}$	$\underline{\mathbf{E}}$	<u>4030</u>	<u>T</u>	<u>300</u>	<u>10R0</u>	$\underline{\mathbf{F}}$	$\underline{\mathbf{X}}\mathbf{X}$
A		В	C	D	E	F	G	Н	I

Α	
	Type
HPCB	Chip Ferrite Bead for Extra High Current

В	
FU	Material Code
F=ferrite	D, U

C	
	Feature Code
Е	Extra high current

D						
External Dimensions (L×W) (mm)						
1005 [0402]	1.0x0.5					
4030 [1612]	4.0×3.0					

E							
	Packing						
	T	Tape & Reel					

F							
Nominal Impedance							
Example	Nominal Value						
300	30Ω						
560	56Ω						

G				
Rated Current				
10R0	10A			

Н	
	Hazardous
	Substance
	F

Ι	
	Internal Code
	XX

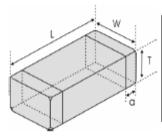


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# **SHAPE AND DIMENSIONS**

Unit: mm [inch]



	Type	L	W	T	a
	HPCB-1005	1.0±0.15	$0.5\pm0.15$	$0.5\pm0.15$	$0.25 \pm 0.1$
l	[0402]	$[.039\pm006]$	$[.020\pm006]$	$[.020\pm006]$	$[.010\pm004]$
ĺ	HPCB-4030	4.0±0.2	3.0±0.2	1.6±0.2	0.8±0.3
	[1612]	$[.158\pm008]$	$[.118\pm008]$	$[.063\pm008]$	$[.031 \pm 012]$

# **SPECIFICATIONS**

#### **HPCB-1005 TYPE**

Part Number	Impedance	Z Test Freq.	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	mΩ	mA	mm [inch]
Symbol	Z	Freq.	DCR	Ir	T
HPCB-FDE1005T100-3R1F	10±25%	100	18	3100	0.5.0.45
HPCB-FDE1005T800-2R3F	PCB-FDE1005T800-2R3F 80±25%		38	2300	0.5±0.15 [.020±.006]
HPCB-FDE1005T121-2R0F	120±25%	100	50	2000	[.0202.000]

### **HPCB-4030 TYPE**

Part Number	Impedance	Z Test Freq.	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	mΩ	mA	mm [inch]
Symbol	Z	Freq.	DCR	Ir	T
HPCB-FDE4030T300-10R0F	30±25%	100	4	10000	1.6±0.2 [.063±.008]
HPCB-FDE4030T400-10R0F	40±25%	100	4	10000	
HPCB-FDE4030T560-10R0F	56±25%	100	4	10000	
HPCB-FUE4030T300-10R0F	30±25%	100	4	10000	
HPCB-FUE4030T400-10R0F	40±25%	100	4	10000	
HPCB-FUE4030T560-10R0F	56±25%	100	4	10000	

The data is reference only. Customers should verify actual device performance in their specific applications. Specifications are subject to change without notice. Please check our website for latest information. http://www.ftind.com



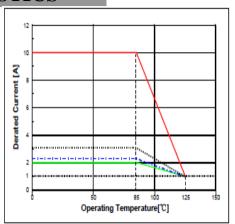
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### **HPCB-EPB Series**

# TYPICAL ELECTRICAL CHARACTERISTICS

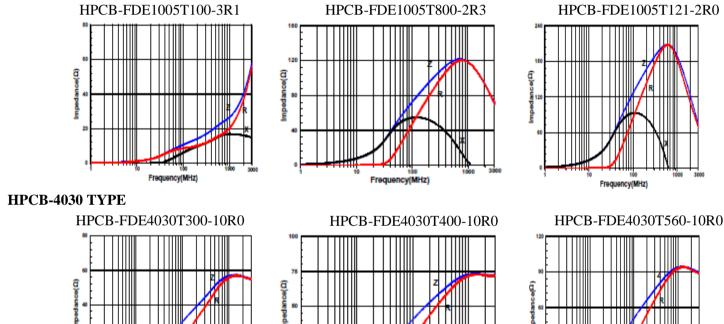
#### Rated Current

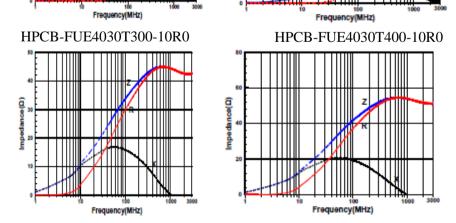
When operating temperatures exceed  $+85^{\circ}$ C, derating of current is necessary for chip ferrite beads for which rated current is 1000mA and over. Please apply the derating curve shown in chart according to the operating temperature.

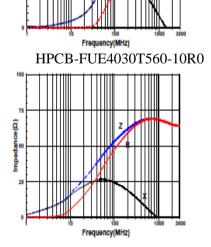


# **DETAIL ELECTRICAL CHARACTERISTICS**

## HPCB-1005 TYPE







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