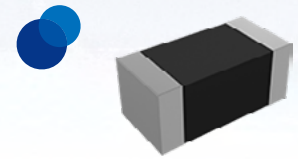


# Multilayer Chip Ferrite Bead - EPZ Series

Operating Temp. : -55°C ~+125°C



## 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 UPZ 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, etc

## PRODUCT IDENTIFICATION

**EPZ**                      **4030**                      **U**                      **300**                      **-10R0**                      **T**

①                              ②                              ③                              ④                              ⑤                              ⑥

①

Type	
EPZ	Chip Ferrite Bead for Extra High Current

②

External Dimensions (L×W) (mm)	
1005 [0402]	1.0×0.5
4030 [1612]	4.0×3.0

③

Material Code
D,E,U

④

Nominal Impedance	
Example	Nominal Value
300	30Ω
560	56Ω

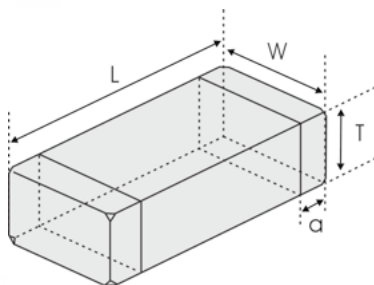
⑤

Rated Current	
10R0	10A

⑥

Packing	
T	Tape & Reel

## SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
EPZ1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
EPZ4030 [1612]	4.0±0.2 [.158±.008]	3.0±0.2 [.118±.008]	1.6±0.2 [.063±.008]	0.8±0.3 [.031±.012]

## SPECIFICATION

### EPZ1005TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	$\Omega$	MHz	m $\Omega$	mA	mm [inch]
Symbol	Z	Freq.	DCR	I <sub>r</sub>	T
EPZ1005D100-3R1T	10 $\pm$ 25%	100	18	3100	0.5 $\pm$ 0.15 [.020 $\pm$ .006]
EPZ1005D800-2R3T	80 $\pm$ 25%	100	38	2300	
EPZ1005D121-2R0T	120 $\pm$ 25%	100	50	2000	
EPZ1005E221-1R2T	220 $\pm$ 25%	100	100	1200	

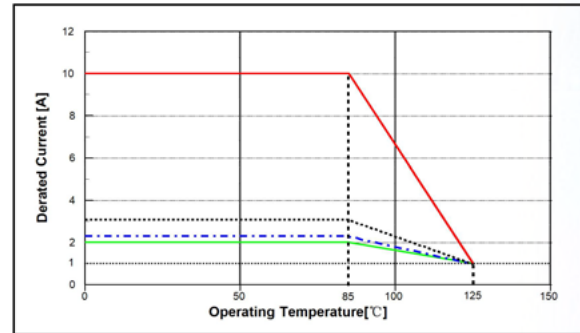
### EPZ4030TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	$\Omega$	MHz	m $\Omega$	mA	mm [inch]
Symbol	Z	Freq.	DCR	I <sub>r</sub>	T
EPZ4030D300-10R0T	30 $\pm$ 25%	100	4	10000	1.6 $\pm$ 0.2 [.063 $\pm$ .008]
EPZ4030D400-10R0T	40 $\pm$ 25%	100	4	10000	
EPZ4030D560-10R0T	56 $\pm$ 25%	100	4	10000	
EPZ4030U300-10R0T	30 $\pm$ 25%	100	4	10000	
EPZ4030U360-10R0TB01	36 $\pm$ 25%	100	0.75	10000	
EPZ4030U400-10R0T	40 $\pm$ 25%	100	4	10000	
EPZ4030U560-10R0T	56 $\pm$ 25%	100	4	10000	

## TYPICAL ELECTRICAL CHARACTERISTICS

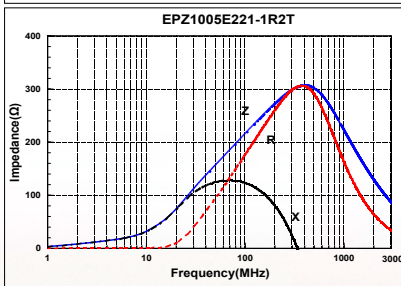
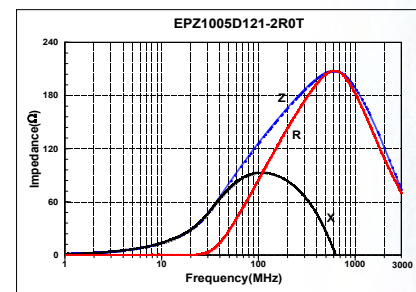
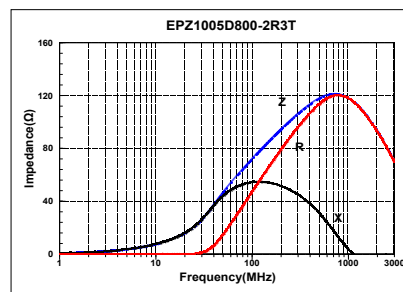
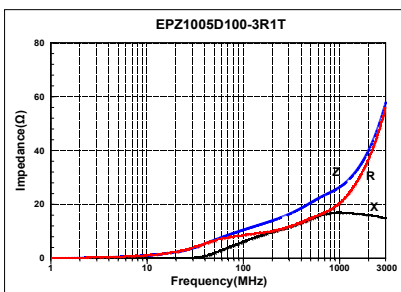
### Rated Current

When operating temperatures exceed +85°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.



## TYPICAL ELECTRICAL CHARACTERISTICS

### EPZ1005 TYPE



# TYPICAL ELECTRICAL CHARACTERISTICS

## EPZ4030 TYPE

