

Ferrites for EMI suppression  
Ni-Zn



# BB series(1 Hole)



## FEATURES

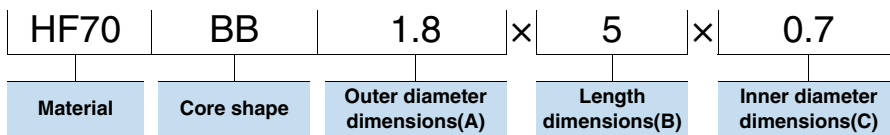
- Effective noise countermeasures are possible by selecting the appropriate material and shape.
- Bead cores are a noise suppression product that are easy to handle. Appropriate selection is possible from a wide variety of types

## APPLICATION

Imaging devices, audio equipment, automotive electronics, telecommunication devices, office automation equipment, and digital interface various other cables.

- Absorption EMI and penetrating noise
- Prevent parasitic oscillation

## PART NUMBER CONSTRUCTION



## RANGE OF USE AND STORAGE TEMPERATURE

Temperature range*	
Operating temperature (°C)	Storage temperature (°C)
-40 to +85	-40 to +85

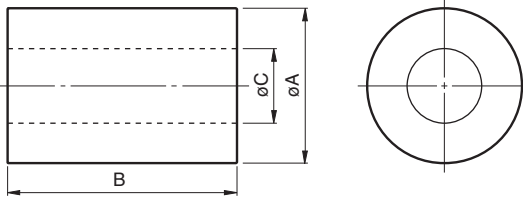
\* The temperature range has a different case by materials.

- RoHS Directive Compliant Product: See the following for more details.<https://product.tdk.com/info/en/environment/rohs/index.html>
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (1/6)  
Please note that the contents may change without any prior notice due to reasons such as upgrading.

# Ni-Zn BB series

## SHAPES AND DIMENSIONS



HF57	BB	1.8	×	5	×	0.7
<b>Material</b>	<b>Core shape</b>	<b>Outer diameter dimensions(A)</b>		<b>Length dimensions(B)</b>		<b>Inner diameter dimensions(C)</b>

### BB series (HF57)

Shape	Material	Dimensions			Impedance ( $\Omega$ ) typ.		Part No.
		$\text{ØA}$ (mm)	B (mm)	$\text{ØC}$ (mm)	10MHz (n=1T)	100MHz (n=1T)	
BB2.85X2X1.35	HF57	2.85±0.1	2.0±0.15	1.35±0.1	8	23	<a href="#">HF57BB2.85X2X1.35</a>
BB3.35X2X2	HF57	3.35±0.2	2.0±0.1	2.0±0.2	6	20	<a href="#">HF57BB3.35X2X2</a>
BB3.5X1X1.6	HF57	3.5±0.15	1.0+0.1,-0.2	1.6±0.1	4.5	17	<a href="#">HF57BB3.5X1X1.6</a>
BB3.5X1.5X1.3	HF57	3.5±0.15	1.5±0.15	1.3±0.1	9	23	<a href="#">HF57BB3.5X1.5X1.3</a>
BB3.5X3X1.3	HF57	3.5±0.15	3.0±0.2	1.3±0.1	16	40	<a href="#">HF57BB3.5X3X1.3</a>
BB3.5X5X1.3	HF57	3.5±0.15	5.0±0.3	1.3±0.1	28	65	<a href="#">HF57BB3.5X5X1.3</a>
BB3.6X3.2X2.7	HF57	3.6±0.15	3.2±0.2	2.7±0.15	6	17	<a href="#">HF57BB3.6X3.2X2.7</a>
BB4X2X2	HF57	4.0±0.15	2.0±0.15	2.0±0.15	8	24	<a href="#">HF57BB4X2X2</a>
BB4X5X2	HF57	4.0±0.15	5.0±0.3	2.0±0.15	19	46	<a href="#">HF57BB4X5X2</a>
BB4.8X4.8X2.4	HF57	4.8±0.2	4.8±0.2	2.4±0.15	18	49	<a href="#">HF57BB4.8X4.8X2.4</a>

### BB series (HF70)

Shape	Material	Dimensions			Impedance ( $\Omega$ ) typ.		Part No.
		$\text{ØA}$ (mm)	B (mm)	$\text{ØC}$ (mm)	10MHz (n=1T)	100MHz (n=1T)	
BB1.8X5X0.7	HF70	1.8±0.15	5.0±0.3	0.7±0.1	31	48	<a href="#">HF70BB1.8X5X0.7</a>
BB2.5X2.2X0.8	HF70	2.5±0.15	2.2±0.2	0.8±0.1	15	27	<a href="#">HF70BB2.5X2.2X0.8</a>
BB2.5X5X0.8	HF70	2.5±0.15	5.0±0.3	0.8±0.1	31	51	<a href="#">HF70BB2.5X5X0.8</a>
BB3X5X1	HF70	3.0±0.15	5.0±0.3	1.0±0.1	33	53	<a href="#">HF70BB3X5X1</a>
BB3.4X3X1	HF70	3.4±0.15	3.0±0.2	1.0±0.1	22	36	<a href="#">HF70BB3.4X3X1</a>
BB3.5X2X1.3	HF70	3.5±0.15	2.0±0.15	1.3±0.1	13	24	<a href="#">HF70BB3.5X2X1.3</a>
BB3.5X5X0.8	HF70	3.5±0.15	5.0±0.3	0.8±0.1	40	68	<a href="#">HF70BB3.5X5X0.8</a>
BB3.5X3X1.3	HF70	3.5±0.15	3.0±0.2	1.3±0.1	17	28	<a href="#">HF70BB3.5X3X1.3</a>
BB3.5X5X1.3	HF70	3.5±0.15	5.0±0.3	1.3±0.1	29	49	<a href="#">HF70BB3.5X5X1.3</a>
BB3.5X10X1.3	HF70	3.5±0.15	10.0±0.4	1.3±0.1	53	92	<a href="#">HF70BB3.5X10X1.3</a>
BB4.5X4X2.5	HF70	4.5±0.15	4.0±0.2	2.5±0.15	17	30	<a href="#">HF70BB4.5X4X2.5</a>
BB4.5X5X1.6	HF70	4.5±0.15	5.0±0.3	1.6±0.1	31	53	<a href="#">HF70BB4.5X5X1.6</a>
BB4X15X1.35	HF70	4+0.1,-0.2	15.0±0.5	1.35±0.1	92	155	<a href="#">HF70BB4X15X1.35</a>
BB5X5X2	HF70	5.0±0.15	5.0±0.3	2.0±0.15	27	42	<a href="#">HF70BB5X5X2</a>
BB5.5X5X2.5	HF70	5.5±0.2	5.0±0.3	2.5±0.15	22	38	<a href="#">HF70BB5.5X5X2.5</a>
BB6X3.8X3	HF70	6.0±0.2	3.8±0.2	3.0±0.2	19	31	<a href="#">HF70BB6X3.8X3</a>
BB6.4X4.5X3.2	HF70	6.4±0.2	4.5±0.2	3.2±0.15	22	37	<a href="#">HF70BB6.4X4.5X3.2</a>
BB6.4X5X3.2	HF70	6.4±0.2	5.0±0.2	3.2±0.15	20	32	<a href="#">HF70BB6.4X5X3.2</a>
BB6.4X10X3.2	HF70	6.4±0.2	10.0±0.5	3.2±0.15	40	63	<a href="#">HF70BB6.4X10X3.2</a>
BB9X5X4.5	HF70	9.0±0.25	5.0±0.3	4.5±0.15	20	34	<a href="#">HF70BB9X5X4.5</a>
BB9X10X4.5	HF70	9.0±0.25	10.0±0.4	4.5±0.15	40	68	<a href="#">HF70BB9X10X4.5</a>
BB9.5X10.4X4.9	HF70	9.52±0.25	10.42±0.25	4.9±0.15	40	70	<a href="#">HF70BB9.5X10.4X4.9</a>

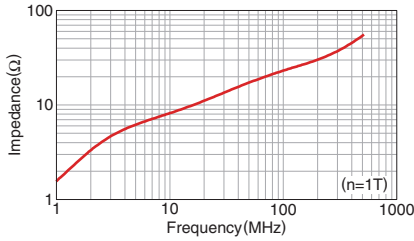
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# Ni-Zn BB series

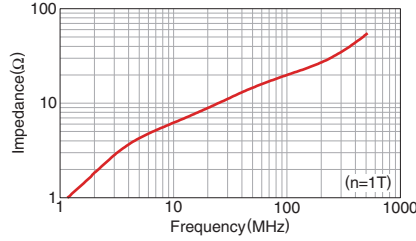
## ELECTRICAL CHARACTERISTICS

### IMPEDANCE VS. FREQUENCY CHARACTERISTICS

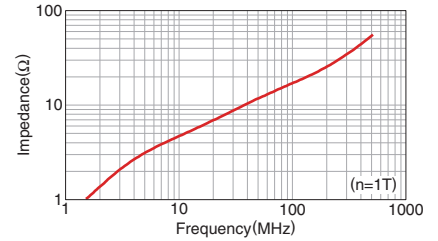
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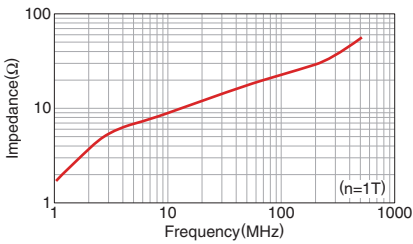
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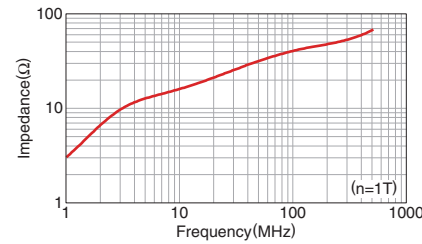
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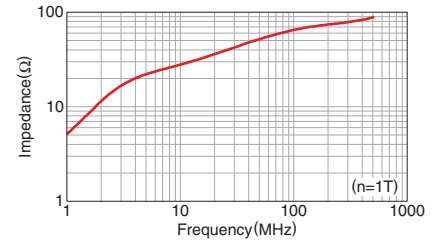
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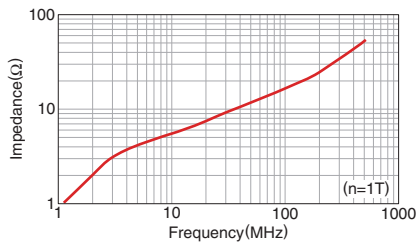
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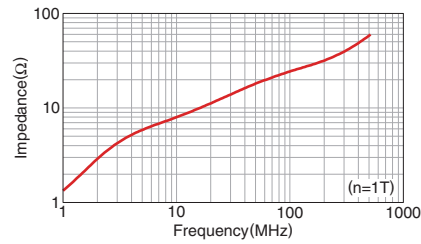
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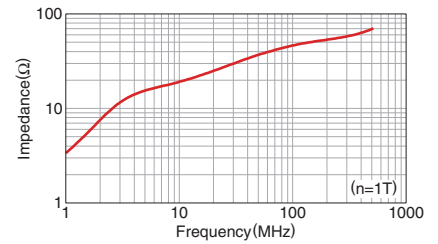
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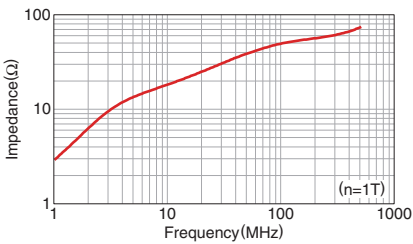
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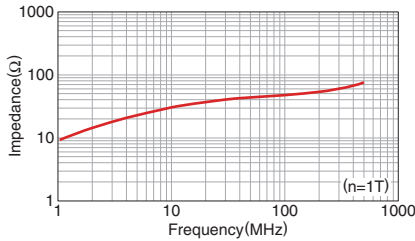


# Ni-Zn BB series

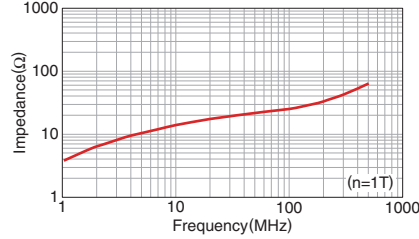
## ELECTRICAL CHARACTERISTICS

### IMPEDANCE VS. FREQUENCY CHARACTERISTICS

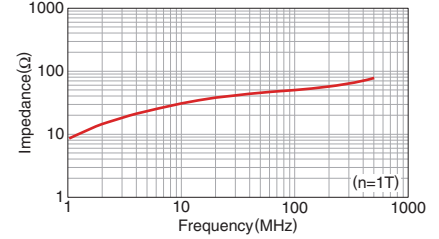
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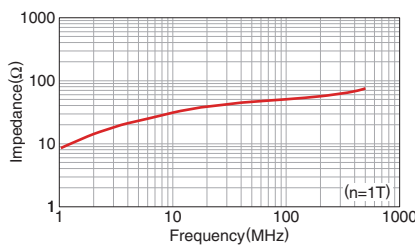
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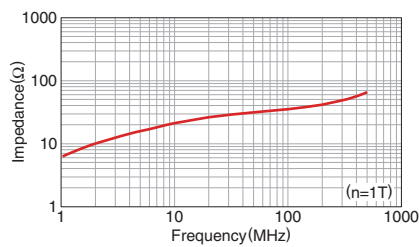
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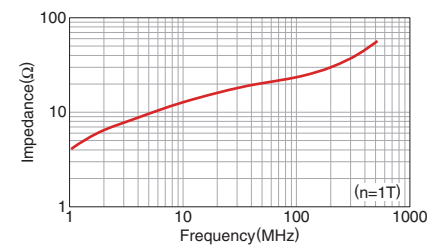
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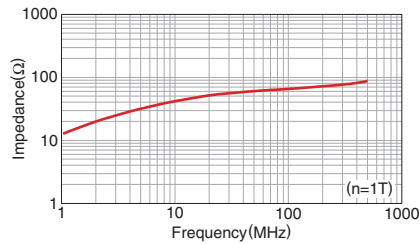
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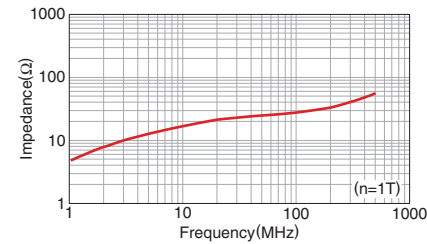
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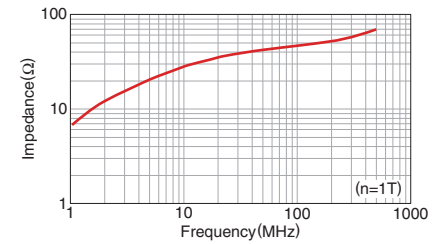
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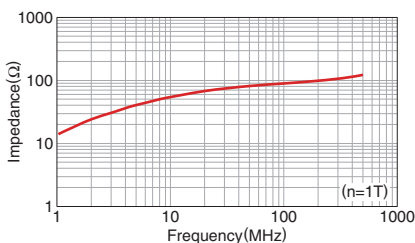
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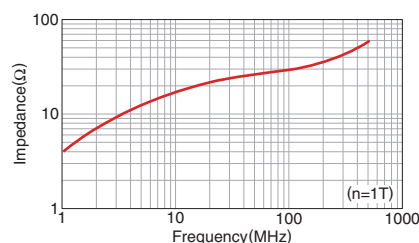
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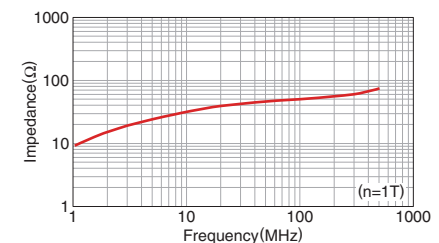
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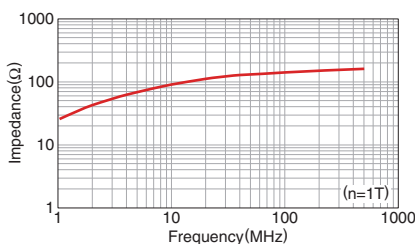
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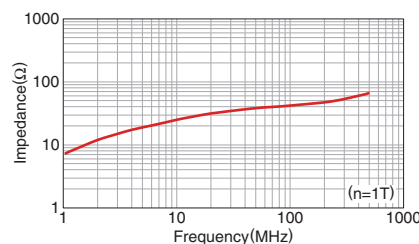
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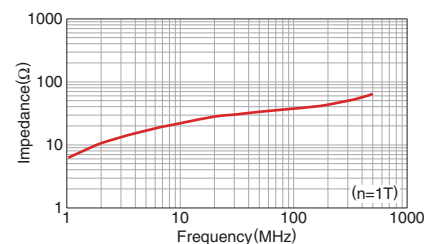
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**HF70BB5X5X2**



**HF70BB5.5X5X2.5**

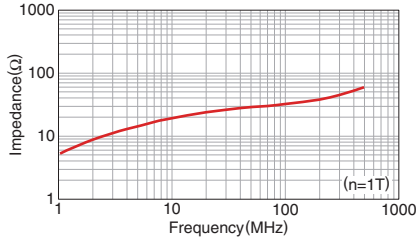


# Ni-Zn BB series

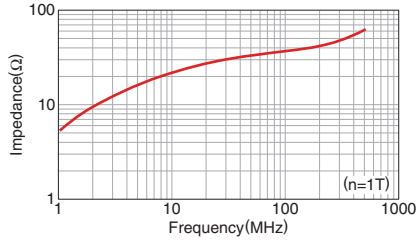
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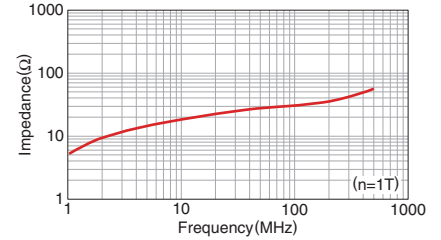
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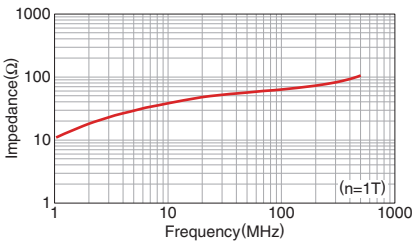
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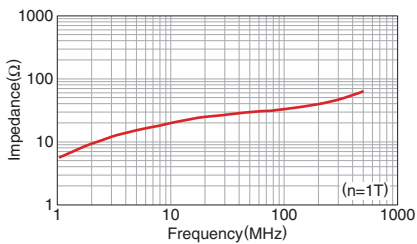
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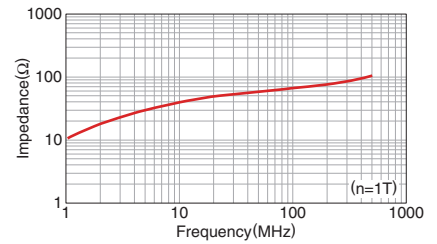
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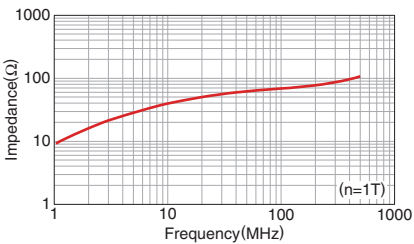
**HF70BB9X5X4.5**



**HF70BB9X10X4.5**



**HF70BB9.5X10.4X4.9**



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