

# Wire Wound Chip Ferrite Bead –SPH-Z Series

Operating Temp. : -40°C~+125°C



## FEATURES

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- Subface electrodes, appropriate for SMT

## APPLICATIONS

- Patch Filter
- Noise suppression for power line or large current signal of electric equipments such as computers and peripheral devices, DVD cameras, LCD TVs, communication equipments, OA equipments, etc.

## PRODUCT IDENTIFICATION

**SPH**

①

**3015**

②

**H**

③

**Z151**

④

**M**

⑤

**T**

⑥

**XXX**

⑦

①

Type	
SPH	Wire Wound Chip Ferrite Bead For Large Current

②

External Dimensions (L×W) (mm)	
3015	3.0 X 3.0 X 1.5

③

Feature type	
H	H Type Material

⑤

Impedance Tolerance	
N	±30%
M	±20%

④

Nominal Impedance	
Example	Nominal Value
Z3R3	3.3Ω
Z151	150Ω

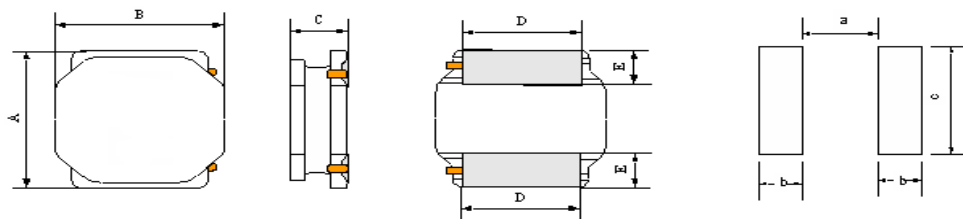
⑥

Packing	
T	Tape & Reel

⑦

Special Process Code	
XXX	Special Process Code
* Standard product is blank	

## SHAPE AND DIMENSIONS



Series	A	B	C	D	E	a	b	c
SPH3015HZ	3.0±0.2	3.0±0.2	1.5Max.	2.5±0.2	0.75±0.2	1.5Typ.	0.8Typ.	2.7Typ.

## SPECIFICATIONS

### SPH3015HZ TYPE

Part Number	Impedance	DC Resistance		Heat Rating Current		Marking
	1MHz,1V	Max.	Typ.	※1 Ambient temperature 85℃	※2 Ambient temperature 105℃	
Units	Ω	Ω	Ω	mA	mA	
Symbol	Z	DCR		I <sub>rms</sub>		-
SPH3015HZ3R3NT	3.3±30%	0.019	0.016	2900	1500	N/A
SPH3015HZ6R8NT	6.8±30%	0.040	0.033	2500	1380	N/A
SPH3015HZ8R4NT	8.4±30%	0.048	0.040	2400	1360	N/A
SPH3015HZ9R8NT	9.8±30%	0.048	0.040	2100	1110	N/A
SPH3015HZ120NT	12±30%	0.060	0.050	1850	910	N/A
SPH3015HZ190NT	19±30%	0.084	0.070	1800	900	N/A
SPH3015HZ210NT	21±30%	0.115	0.096	1550	800	N/A
SPH3015HZ310NT	31±30%	0.115	0.096	1200	610	N/A
SPH3015HZ520NT	52±30%	0.276	0.230	1100	550	N/A
SPH3015HZ650NT	65±30%	0.276	0.230	900	450	N/A
SPH3015HZ101NT	100±30%	0.468	0.390	900	330	N/A
SPH3015HZ151NT	150±30%	0.768	0.640	490	300	N/A

Note:※1: When applied rated current to the Products, temperature rise caused by self heating will be 40℃ or less.

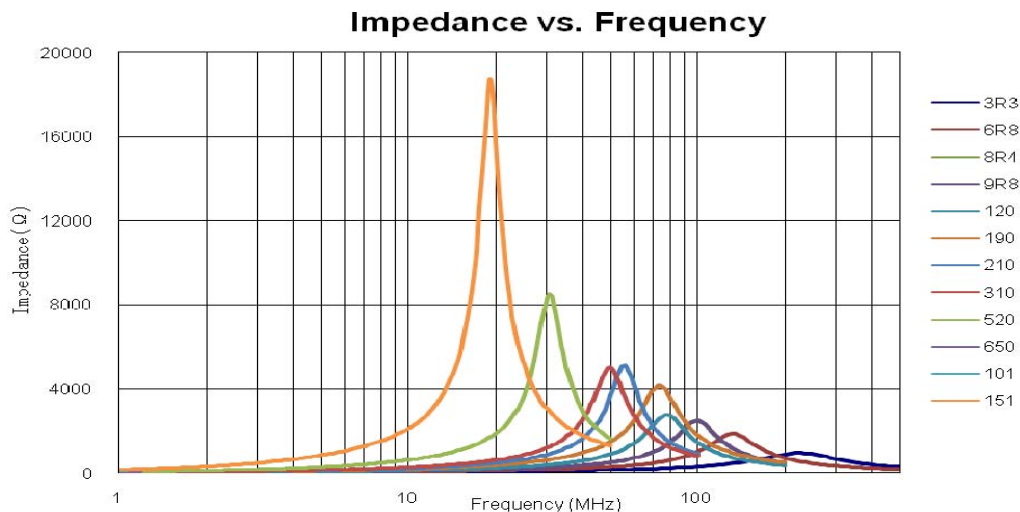
※2: When applied rated current to the Products, temperature rise caused by self heating will be 20℃ or less.

The part temperature (ambient + temp. rise) should not exceed 125℃ under worst case operating conditions.

Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

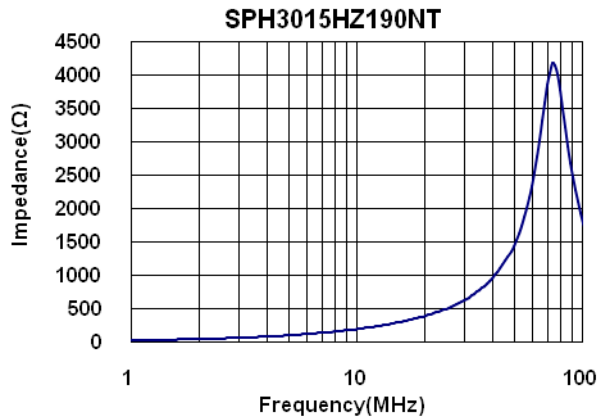
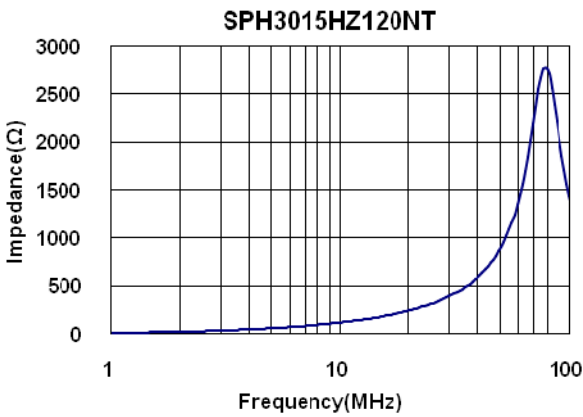
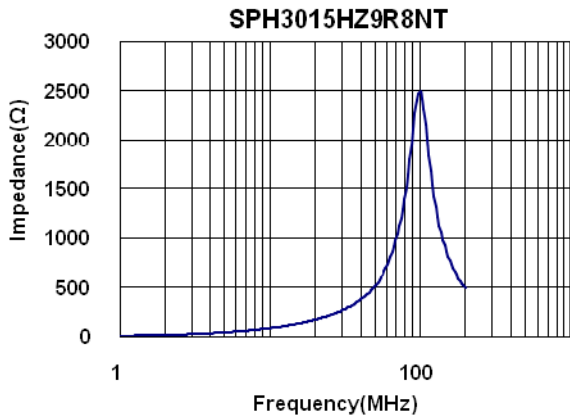
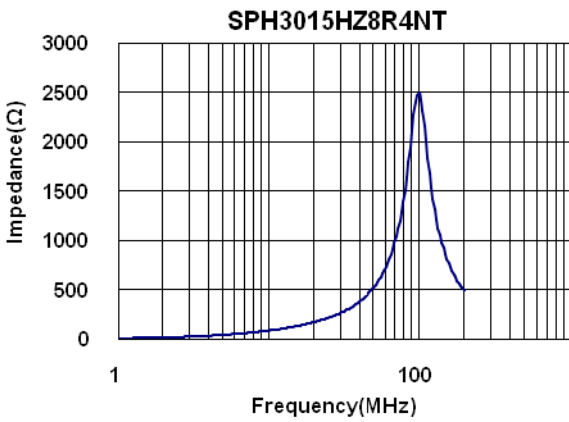
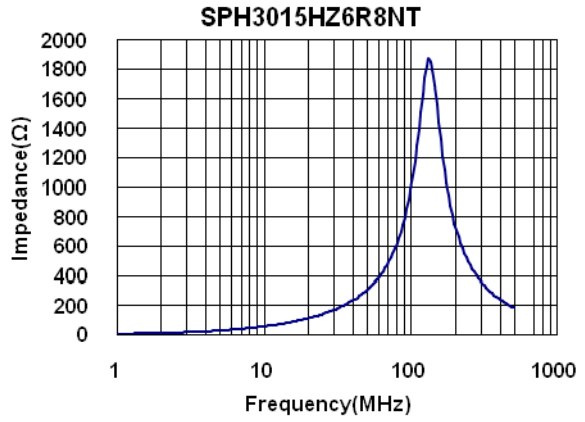
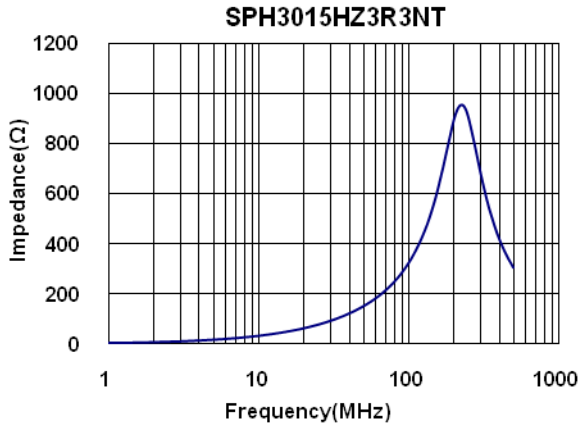
## TYPICAL ELECTRICAL CHARACTERISTICS

### SPH3015HZ Series



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SPH3015HZ Series



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