

Type: FB-875

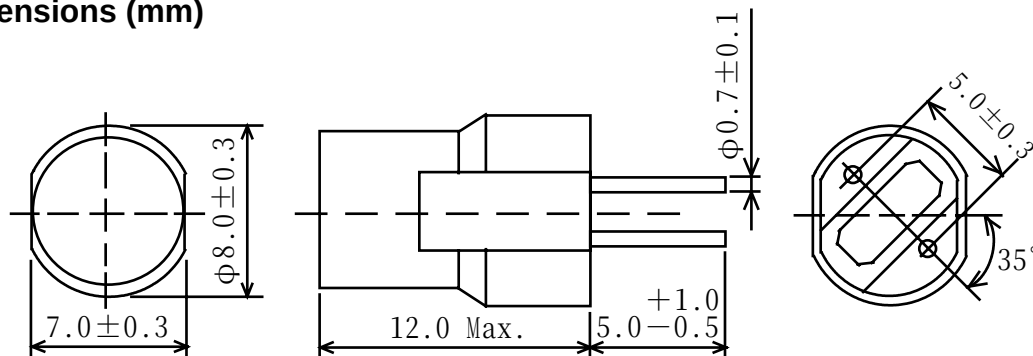
◆ **Product Description**

- $\phi 8.3\text{mm}$ Max (L $\times$ W), 12.0mm Max.height.
- Both used as power inductors and filters.
- Inductance range: $4.7 \mu\text{H} \sim 100 \mu\text{H}$.
- Rated Current Range: $0.7\text{A} \sim 1.6\text{A}$ (as power inductor).
- Operating frequency: 250kHz Max. (as filter).
- In addition to the reference versions of parameters shown here, custom designs are available to meet your exact requirements.

◆ **Feature**

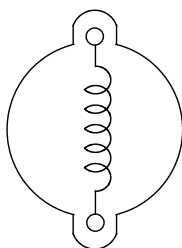
- Magnetically unshielded construction with one built-in capacitor.
- Ideally used in TV, Copy Machine, Mainboard of the compounding machines, etc as Power Supplies's Inductors or DC-DC Converter inductors.(as power inductor).
- Ideally used as Audio Filters(Trap)
- RoHS Compliance

◆ **Dimensions (mm)**

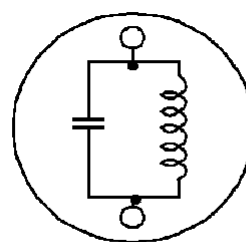


- * Dimension does not include solder used on coil.
- * Pin pitch should be measured at the root of terminal.

◆ **Connection (Bottom View)**



As power inductor



As filter

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◆ Specification(Used as inductors)

Part No.	Stamp	Inductance <Within> ※ 1	D.C.R <Max.> (Ω)(at 20℃)	Saturation Current (A) ※ 2	Temperature rise current (A)※3
FB875NP-4R7M	4R7M	4.7 μH±20%	0.06	6.0	1.6
FB875NP-5R6M	5R6M	5.6 μH±20%	0.07	5.5	1.6
FB875NP-6R8M	6R8M	6.8 μH±20%	0.08	5.0	1.6
FB875NP-8R2M	8R2M	8.2 μH±20%	0.09	4.5	1.6
FB875NP-100M	100M	10 μH±20%	0.10	4.0	1.6
FB875NP-120M	120M	12 μH±20%	0.11	3.6	1.6
FB875NP-150M	150M	15 μH±20%	0.12	3.1	1.6
FB875NP-180M	180M	18 μH±20%	0.13	3.0	1.6
FB875NP-220M	220M	22 μH±20%	0.14	2.7	1.4
FB875NP-270M	270M	27 μH±20%	0.15	2.4	1.0
FB875NP-330M	330M	33 μH±20%	0.17	2.2	1.0
FB875NP-390M	390M	39 μH±20%	0.19	2.0	1.0
FB875NP-470K	470K	47 μH±10%	0.21	1.9	1.0
FB875NP-560K	560K	56 μH±10%	0.24	1.7	1.0
FB875NP-680K	680K	68 μH±10%	0.33	1.5	0.8
FB875NP-820K	820K	82 μH±10%	0.36	1.4	0.8
FB875NP-101K	101K	100 μH±10%	0.54	1.1	0.7

※1: Measuring frequency(Inductance) : 4.7 μ H $\sim$ 10 μ H, 100 μ H at 7.96MHz
 12 μ H $\sim$ 82 μ H at 2.52MHz

※2: Saturation current: The DC current at which the inductance decreases to 90% of it's initial value.

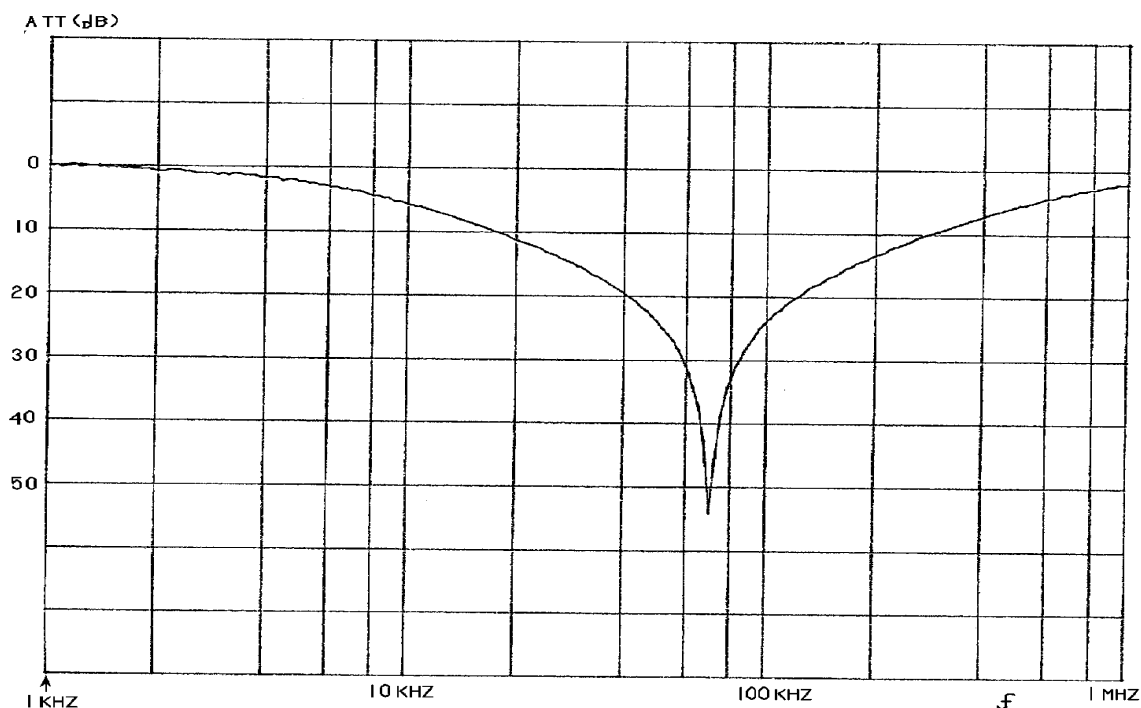
※3: Temperature rise current: The DC current at which the temperature rise is $\Delta t=20^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$).

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◆ **Specification(Used as filter,Part No.:S1160260)**

Item	Specification
Input impedance (Rin)	600Ω
Output impedance (Rout)	600Ω
Attenuation 70kHz	30dB Min.
Capacity (Int.)	150pF±10% Within

Frequency Response (Attenuation 1kHz=0dB)



Testing Circuit

