ABT-8





#### > FEATURES

- Small size and low profile SMT package
- Low insertion loss within working frequency range
- 1:1 impedance ratio
- Excellent solderability

### > APPLICATIONS:

• Balanced unbalanced transformation between antenna and cable for TV tuner, STB

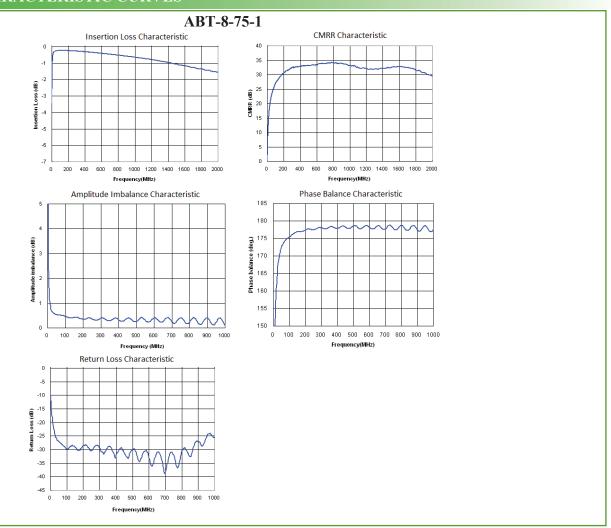
## **ELECTRICAL SPECIFICATIONS:**

Operating Temperature: -40°C to +85°C

Storage Temperature: -10°C to +40°C, 70% RH max. in tape and reel

Part Number	Frequency Range (MHz)	Unbalance /Balance Impedance (ohm)	DC Resistance (Ω) Max	Rated Current (mA) Max	Insertion Loss max (dB)	CMRR min (dB)	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance Min. $(M\Omega)$
ABT-8-75-1	45~870	75/75	0.80	200	1.0	20	50	125	10
ABT-8-50-1	45~870	50/50	0.80	200	1.2	20	50	125	10
ABT-8-75-2	50~1200	75/75	0.40	300	1.5	20	50	125	10
ABT-8-75-3	1000~1500	75/75	0.42	290	1.4	20	50	125	10

### **ELECTRICAL CHARACTERISTIC CURVES**







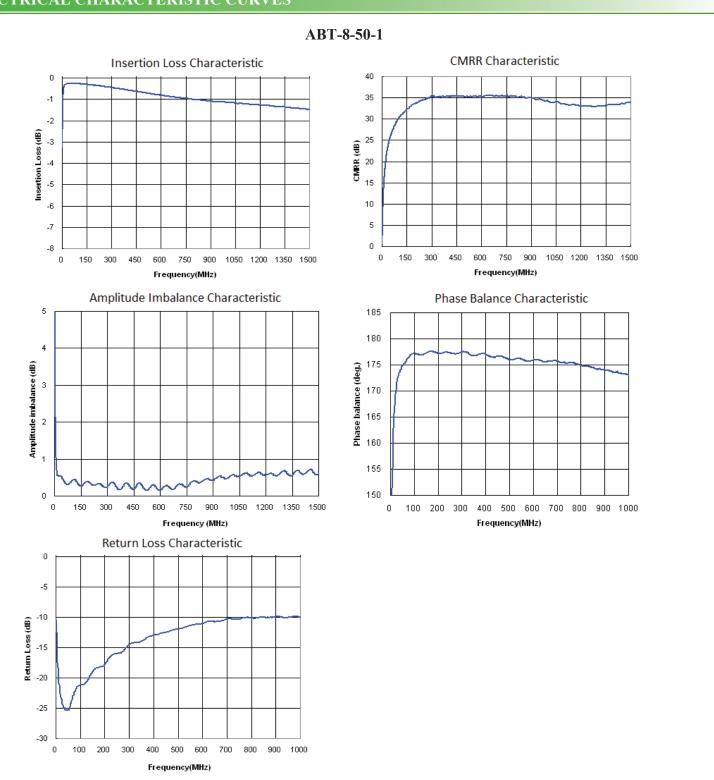
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2.0 x 1.2 x 1.2mm

## **ELECTRICAL CHARACTERISTIC CURVES**





**ABT-8-75-2** 

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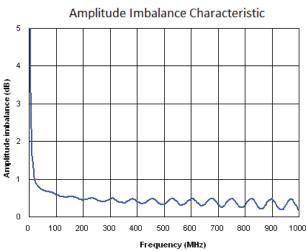


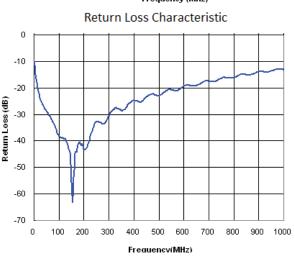


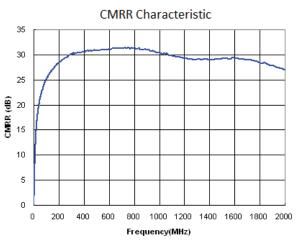
2.0 x 1.2 x 1.2mm

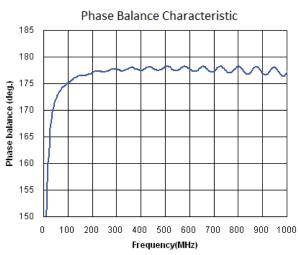
### **ELECTRICAL CHARACTERISTIC CURVES**















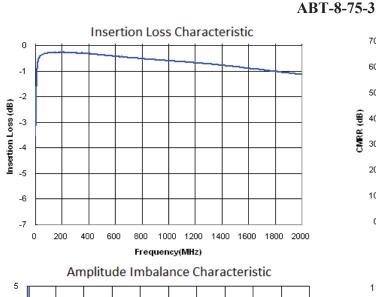
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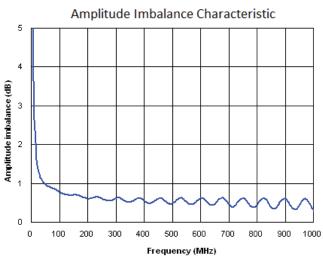


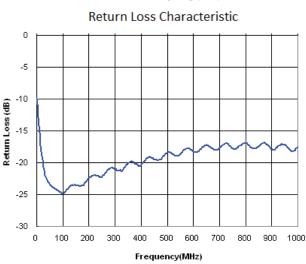


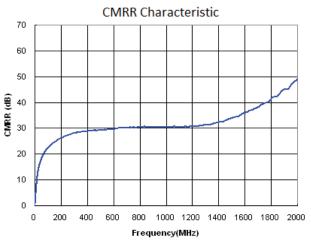
2.0 x 1.2 x 1.2mm

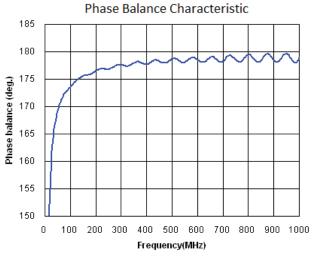
## **ELECTRICAL CHARACTERISTIC CURVES**













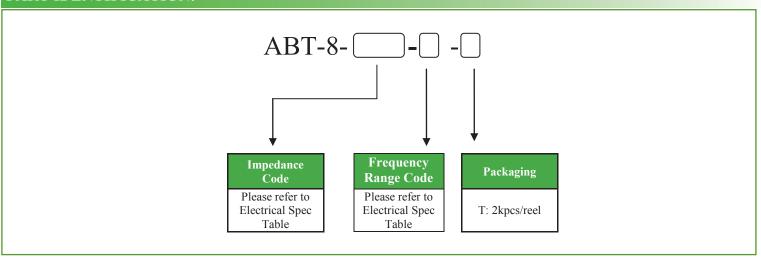
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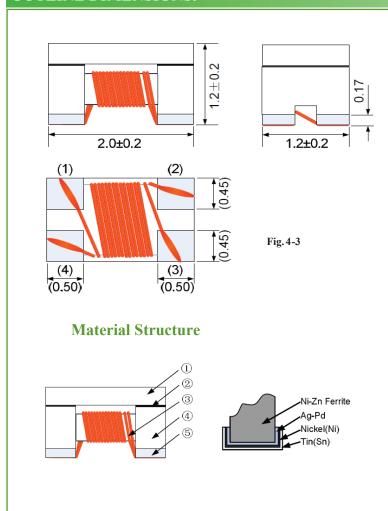




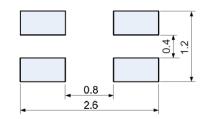




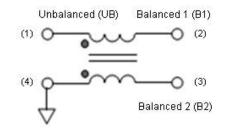
### **OUTLINE DIMENSIONS:**



### **Recommended Land Pattern**



#### **Schematic**



No.	Part Name	Material Name			
1	Lid	Ni-Zn Ferrite			
2	Epoxy	Epoxy resin			
3	Wire	Polyurethane system enameled copper wire			
4	Core	Ni-Zn Ferrite			
(5)	Electrode	(Ag-Pd)+Ni+Sn plating			

**Dimension: mm** 





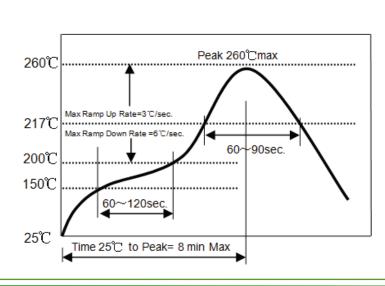
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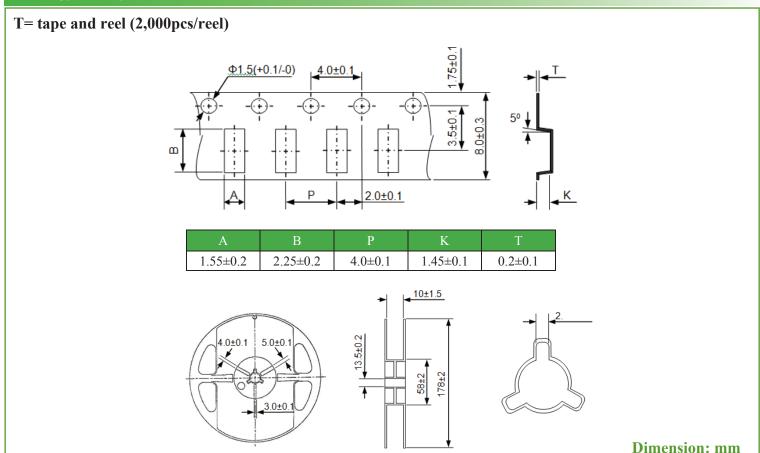
2.0 x 1.2 x 1.2mm

### **REFLOW PROFILE:**



- Δ Preheat condition: 150~200°C/60~120sec.
- Δ Allowed time above 217°C: 60~90sec.
- Δ Max temp: 260°C
- $\Delta$  Max time at max temp: 10sec.
- Δ Solder paste: Sn/3.0Ag/0.5Cu
- Δ Allowed Reflow time: 2 times max.

### **TAPE & REEL:**



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