

Wire Wound Chip Balun Wide Band Transformer

ABT-8



RoHS / RoHS II Compliant



2.0 x 1.2 x 1.2mm

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:

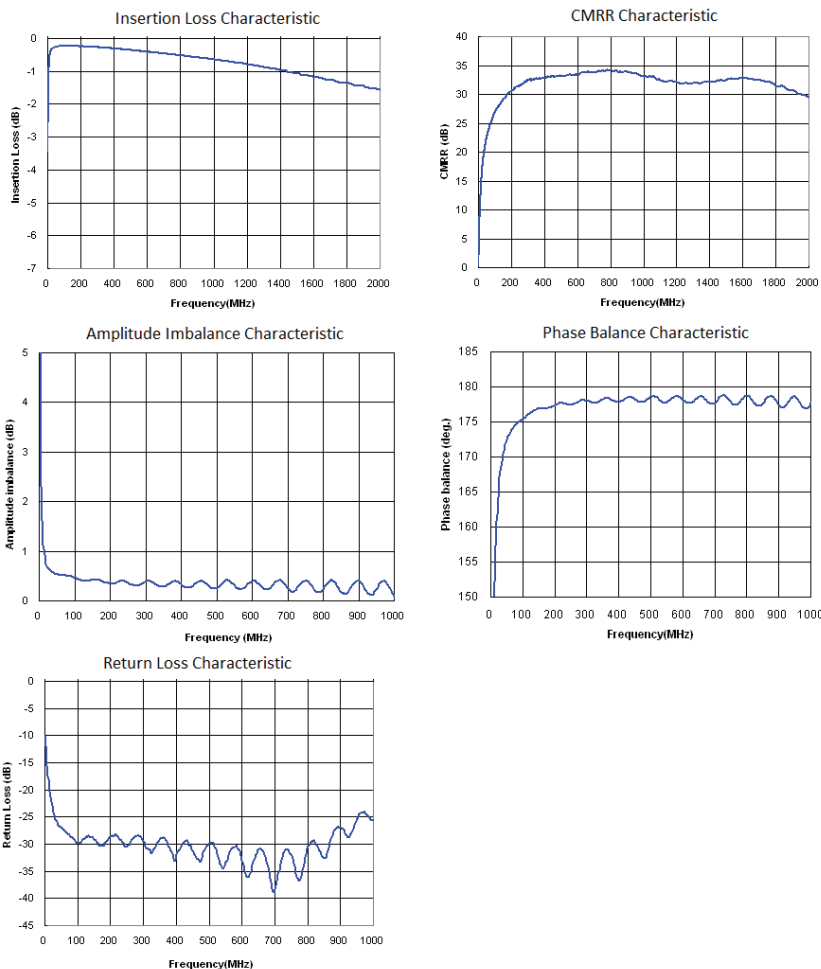
Operating Temperature: -40°C to +85°C

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. (MΩ) |
|-------------|-----------------------|------------------------------------|-----------------------|------------------------|-------------------------|---------------|---------------------|-------------------------|---------------------------------|
| 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

ABT-8-75-1



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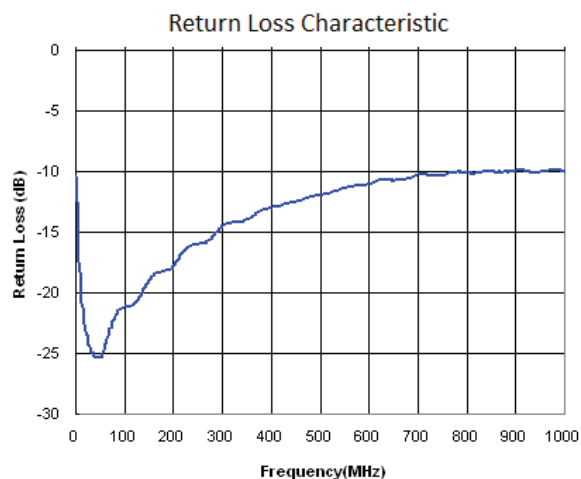
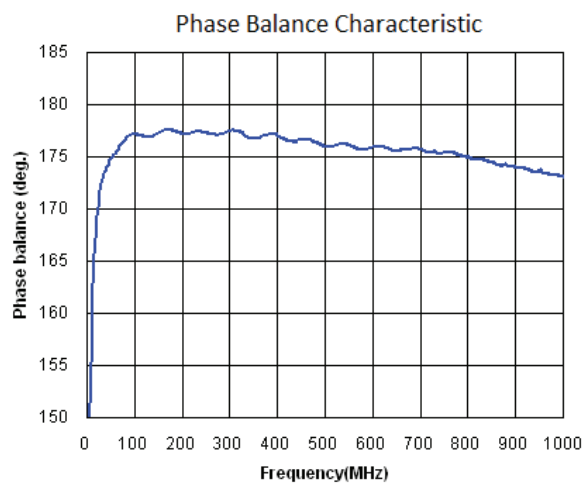
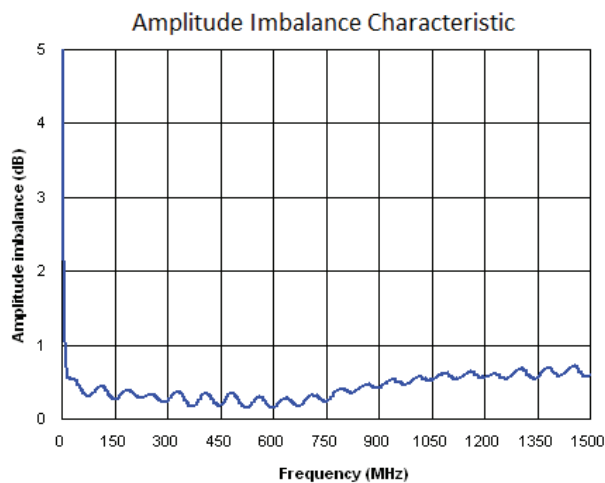
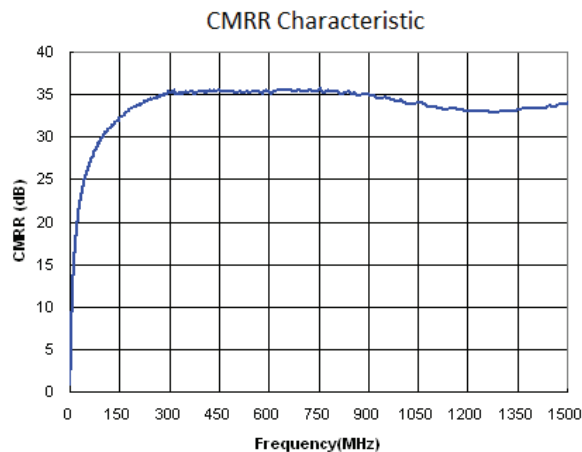
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2.0 x 1.2 x 1.2mm

ELECTRICAL CHARACTERISTIC CURVES

ABT-8-50-1



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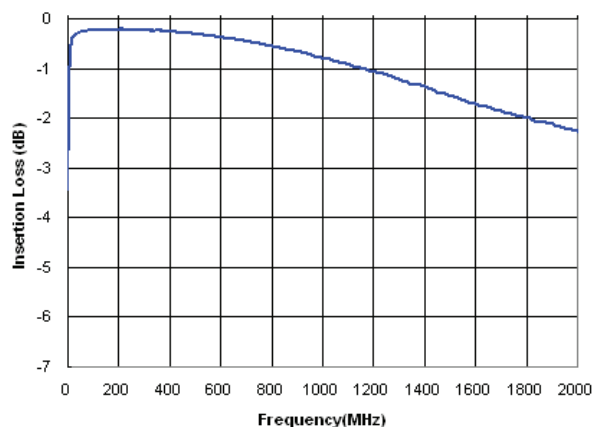


2.0 x 1.2 x 1.2mm

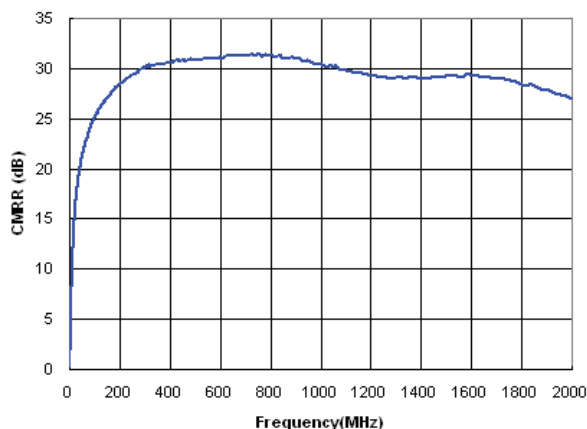
ELECTRICAL CHARACTERISTIC CURVES

ABT-8-75-2

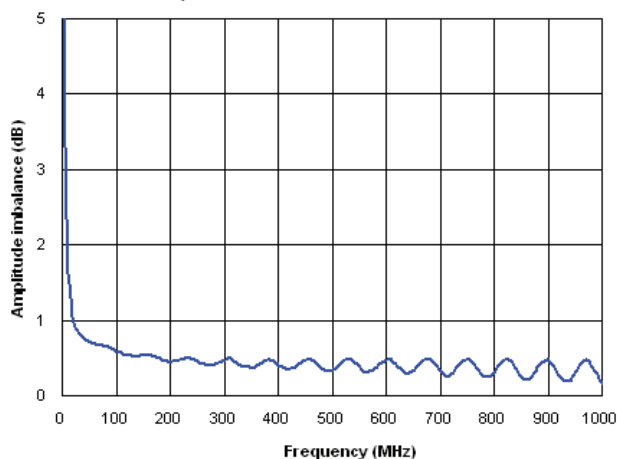
Insertion Loss Characteristic



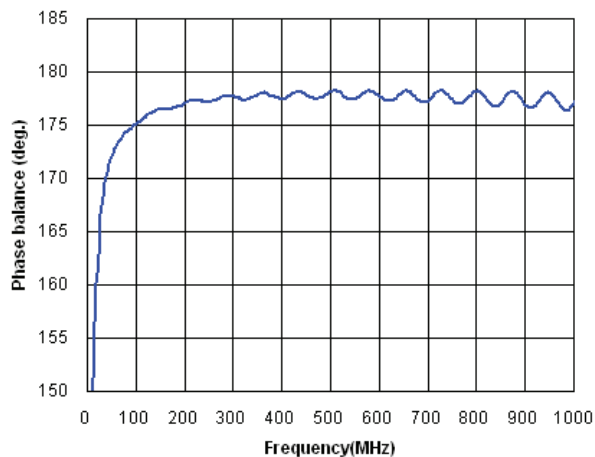
CMRR Characteristic



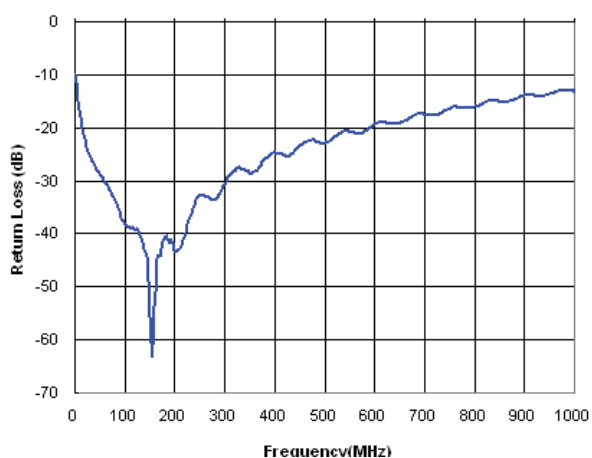
Amplitude Imbalance Characteristic



Phase Balance Characteristic



Return Loss Characteristic



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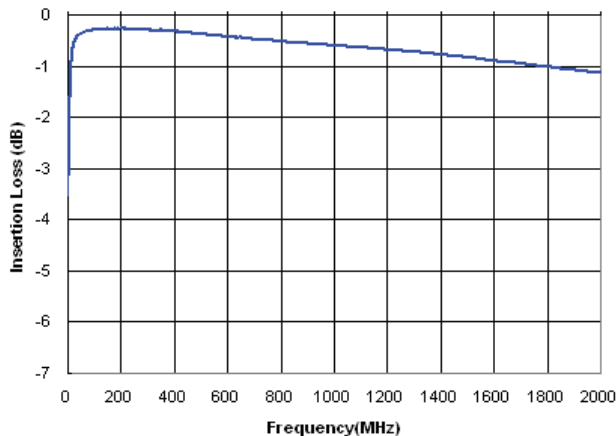


2.0 x 1.2 x 1.2mm

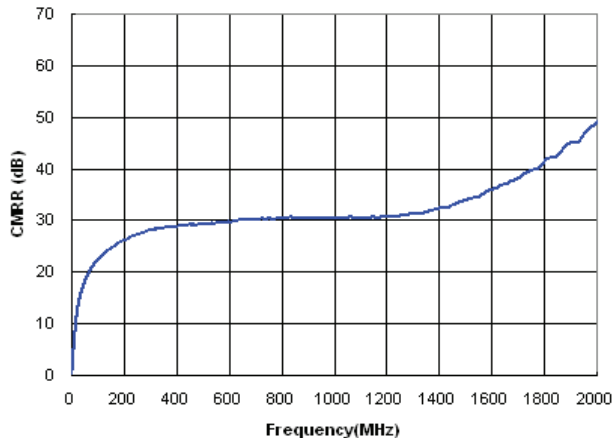
ELECTRICAL CHARACTERISTIC CURVES

ABT-8-75-3

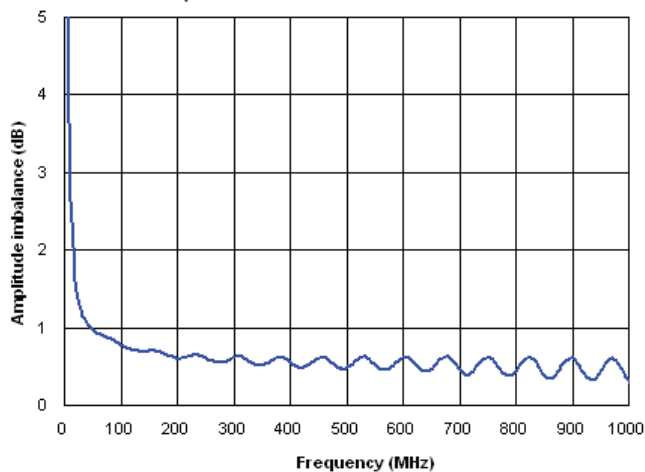
Insertion Loss Characteristic



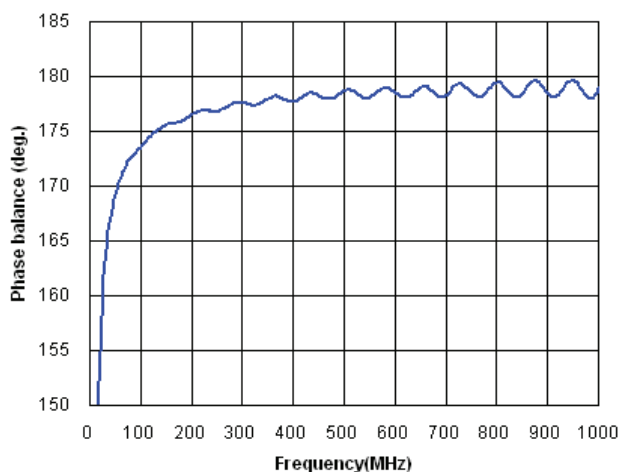
CMRR Characteristic



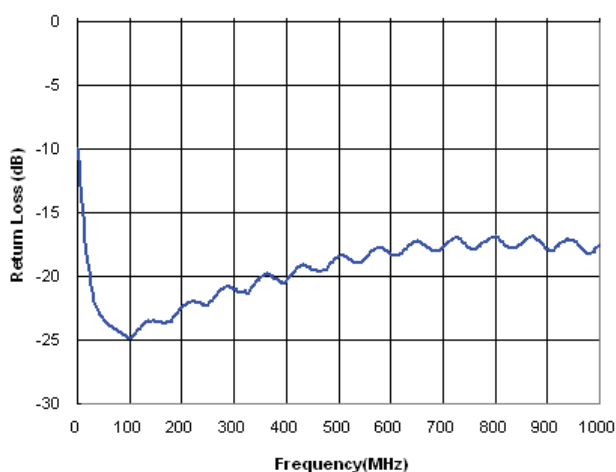
Amplitude Imbalance Characteristic



Phase Balance Characteristic



Return Loss Characteristic



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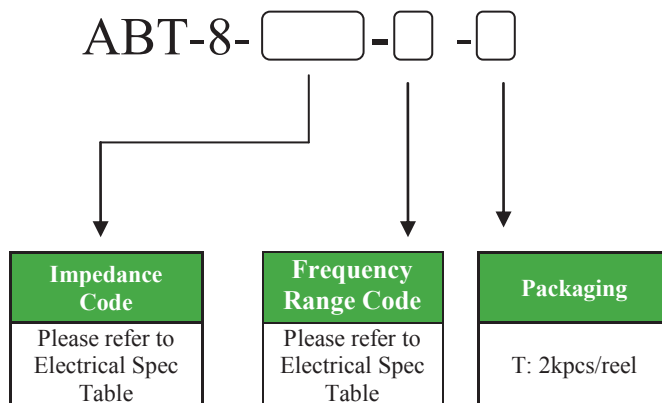
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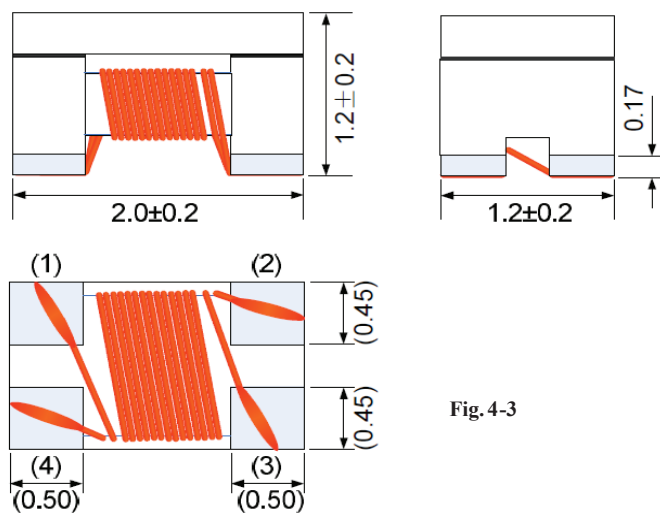


2.0 x 1.2 x 1.2mm

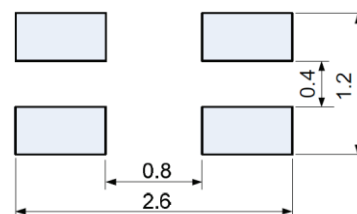
PART IDENTIFICATION:



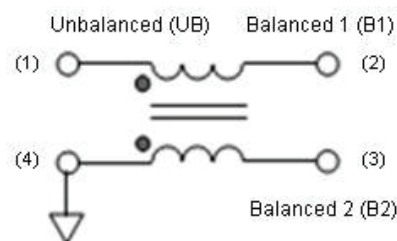
OUTLINE DIMENSIONS:



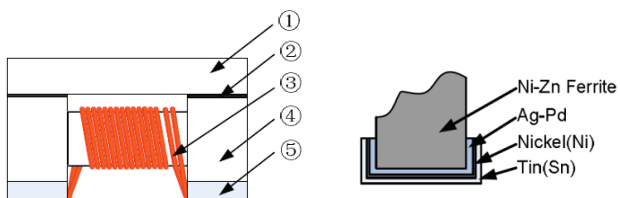
Recommended Land Pattern



Schematic



Material Structure



| 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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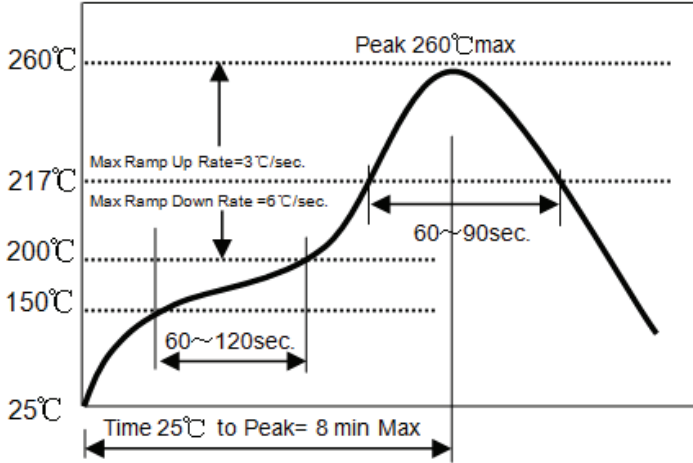


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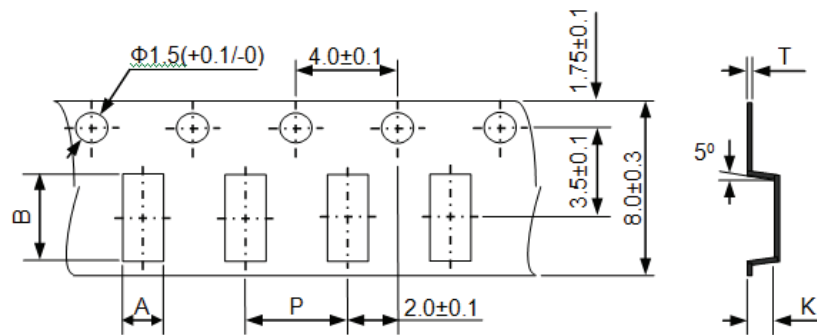
REFLOW PROFILE:



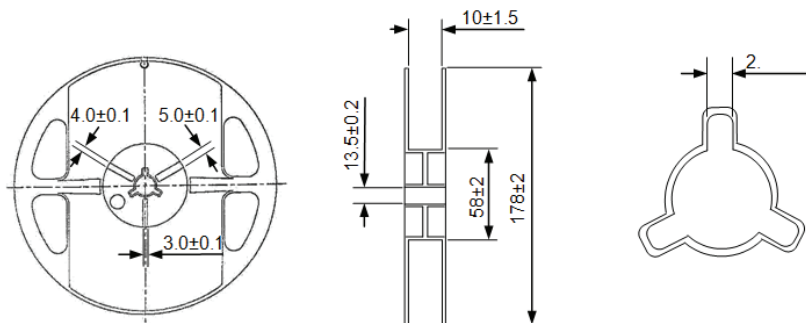
- △ Preheat condition: 150~200°C/60~120sec.
- △ Allowed time above 217°C: 60~90sec.
- △ Max temp: 260°C
- △ Max time at max temp: 10sec.
- △ Solder paste: Sn/3.0Ag/0.5Cu
- △ Allowed Reflow time: 2 times max.

TAPE & REEL:

T= tape and reel (2,000pcs/reel)



| A | B | P | K | T |
|----------|----------|---------|----------|---------|
| 1.55±0.2 | 2.25±0.2 | 4.0±0.1 | 1.45±0.1 | 0.2±0.1 |



Dimension: mm

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

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