

Product Information

Control No. : ARP-488800-F 1

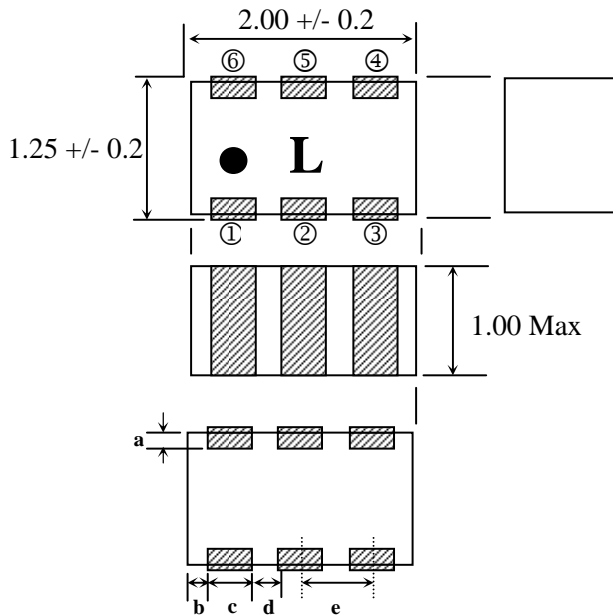
Issued on September 16, 2010

Application : Diplexer for Wireless LAN (2.4GHz / 5GHz)

1. Type No.
HMD888J - T

RoHS Directive Parts

2. Dimension (Unit : mm)



| Terminal | |
|----------|------------|
| ① | 5G-Input |
| ② | GND |
| ③ | 2.4G-Input |
| ④ | GND |
| ⑤ | Common |
| ⑥ | GND |

| Terminal Dimensions | |
|---------------------|---------------|
| a | 0.15 Typ. |
| b | 0.20 +/- 0.15 |
| c | 0.30 +/- 0.10 |
| d | 0.35 +/- 0.10 |
| e | 0.65 +/- 0.10 |

3. Electrical characteristics

(3)-1 Common Port () - Low Frequency Port ()

| Parameter | Specification | Typical | Unit | Remark |
|-----------------------------------|----------------|---------|-------|--------|
| fc (Center frequency) | 2450 | - | MHz | |
| Pass band frequency | 2400-2500 | - | MHz | |
| Nominal impedance | 50 | - | ohm | |
| Insertion Loss at 25degC. | 0.5 Max. | 0.30 | dB | |
| Insertion Loss at -40 to +85degC. | 0.7 Max. | - | dB | |
| Common port VSWR in BW | 2.0 Max. | 1.37 | - | |
| Ripple | 0.3 Max. | 0.03 | dB | |
| Attenuation (MHz) | at 4800 - 6000 | 20 Min | 23.50 | dB |
| | at 7200 - 7500 | 20 Min | 25.10 | dB |

(3)-2 Common Port () - High Frequency Port ()

| Parameter | Specification | Typical | Unit | Remark |
|-----------------------------------|------------------|---------|-------|--------------|
| fc (Center frequency) | 5425 | - | MHz | |
| Pass band frequency | 4900-5950 | - | MHz | |
| Nominal impedance | 50 | - | ohm | |
| Insertion Loss at 25degC. | 0.8 Max. | 0.50 | dB | |
| Insertion Loss at -40 to +85degC. | 1.1 Max. | - | dB | |
| Common port VSWR in BW | 2.0 Max. | 1.25 | - | |
| Ripple | 0.5 Max. | 0.05 | dB | |
| Attenuation (MHz) | at 1800 - 2500 | 25 Min | 34.10 | dB |
| | at 9800 - 11900 | 25 Min | 42.20 | dB Reference |
| | at 14700 - 17850 | 15 Min | 27.20 | dB Reference |

4. Note

- 4.1 Operating Temperature Range : -40 to +85 deg.C
- 4.2 Storage Temperature Range before soldering in taping package : -20 to +35 deg.C
- 4.3 Minimum Ordering Quantity : 2,000 pcs (per reel, per bag)

| Approved by | Confirmed by | Raised by |
|-------------|--------------|-----------|
| Y.Mizutani | H.Makino | K.Misaizu |

SOSHIN ELECTRIC CO., LTD

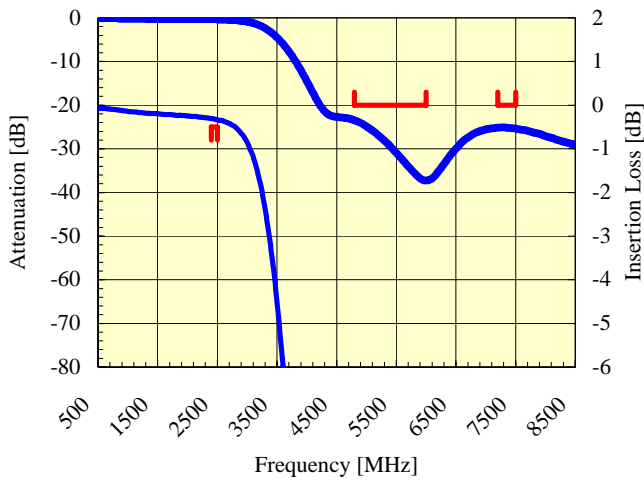
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Control No. : ARP-488800-F 2

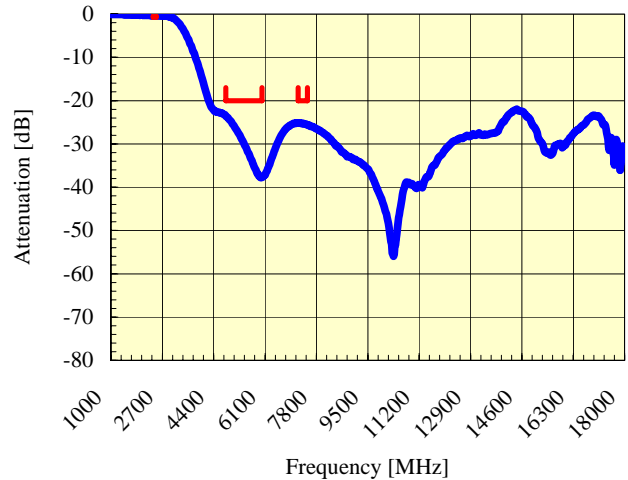
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5.Representative characteristics

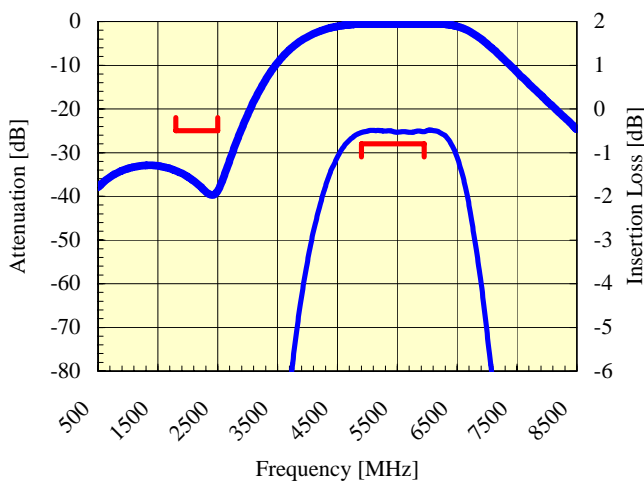
Pass Band Frequency Response (2.4GHz Port)



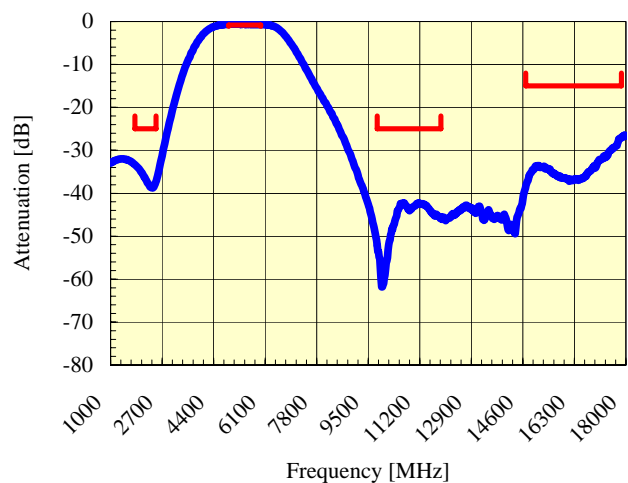
Broad Band Frequency Response (2.4GHz Port)



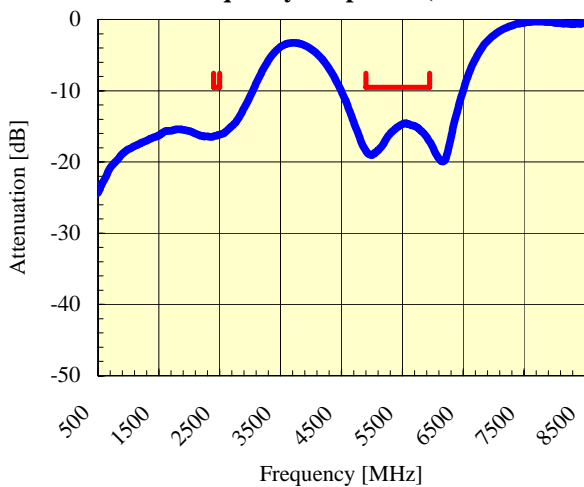
Pass Band Frequency Response (5GHz Port)



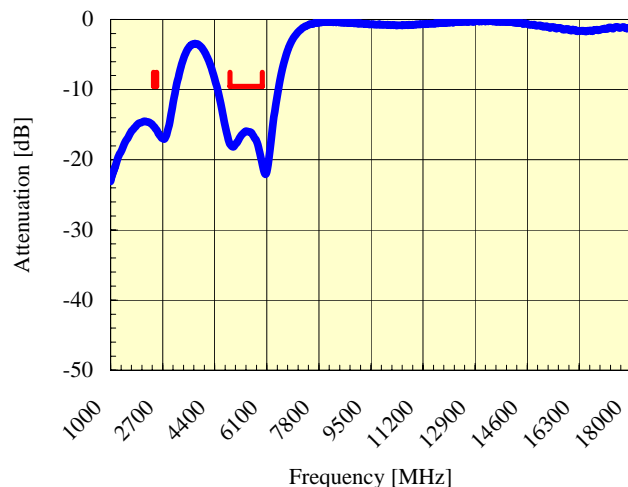
Broad Band Frequency Response (5GHz Port)



Pass Band Frequency Response (Common Port)



Broad Band Frequency Response (Common Port)



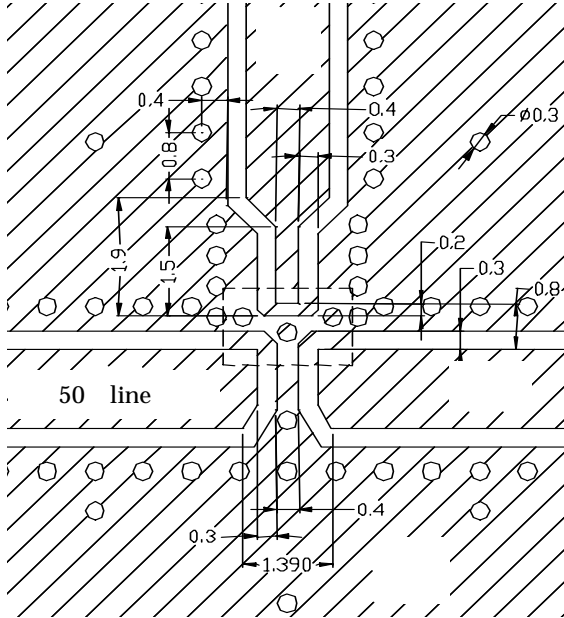
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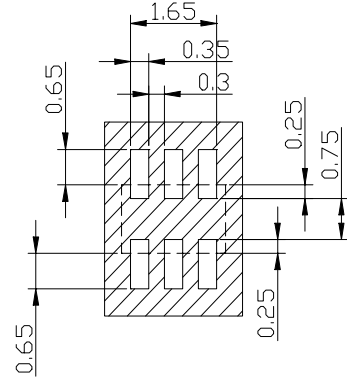
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6.Recommendation Land Pattern (Unit:mm)

Land Pattern



Resist Pattern



| Terminal | |
|----------|---------|
| | Input |
| | Output1 |
| | Output2 |
| | GND |

(Unit : mm)