

Product Information

Control No. : ARP-481400- H 1

Issued on June 18, 2020

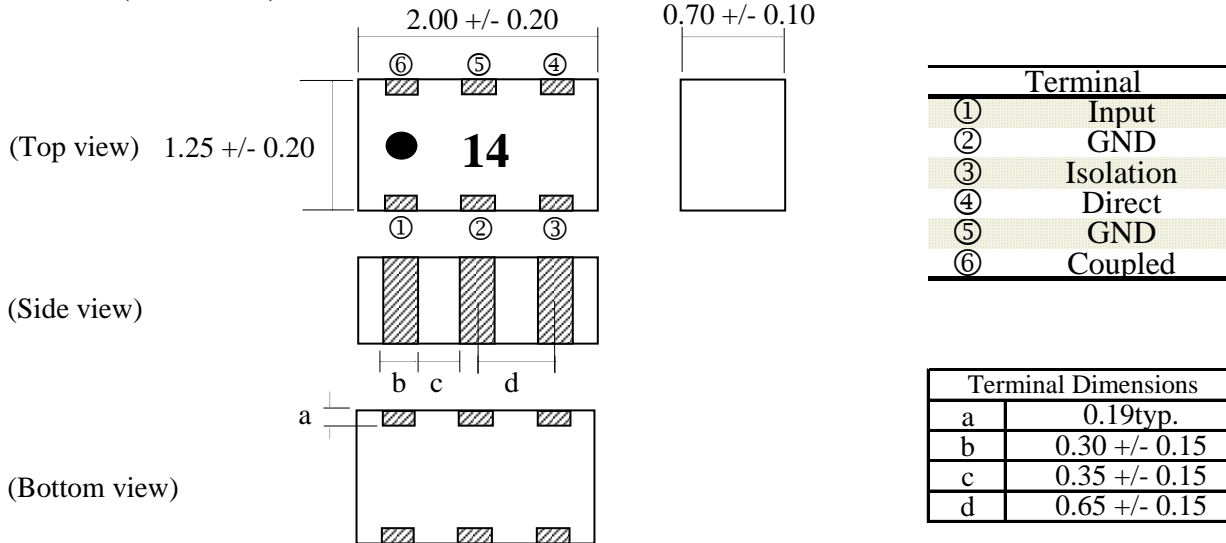
Application : 3dB 90deg Hybrid Coupler for 1850-2350MHz

1. Type No.

HMD814D-HYB2150

RoHS Compliant Part

2. Dimension (Unit : mm)



3. Electrical characteristics

| Pass band | Specification | Typical | Unit | Remark |
|---------------------------|---------------|-----------|------|--------|
| fc (Center frequency) | 2175 | - | MHz | |
| Pass band frequency | 1850-2350 | - | MHz | |
| Nominal impedance | 50 | - | ohm | |
| Insertion Loss at 25degC. | 1850-2300 | 0.40 Max. | 0.32 | dB |
| Insertion Loss at 25degC. | 2300-2350 | 0.45 Max. | 0.32 | dB |
| Input Return Loss | 18 Min. | 30.9 | dB | |
| Isolation | 21 Min. | 27.1 | dB | |
| Amplitude balance | 0.8 Max. | 0.19 | dB | |
| Phase balance | 90+/-6 | 90.9 | deg | |

4. Note

- | | |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -40 to +105 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 3W Avg/CW |
| 4.4 Standard Reel Quantity | : 2,000 pcs (per reel, per bag) |

| | | | |
|--|-------------|--------------|-----------|
| | Approved by | Confirmed by | Raised by |
| | Y. Mizutani | T. Hasegawa | M. Aiba |

SOSHIN ELECTRIC CO., LTD

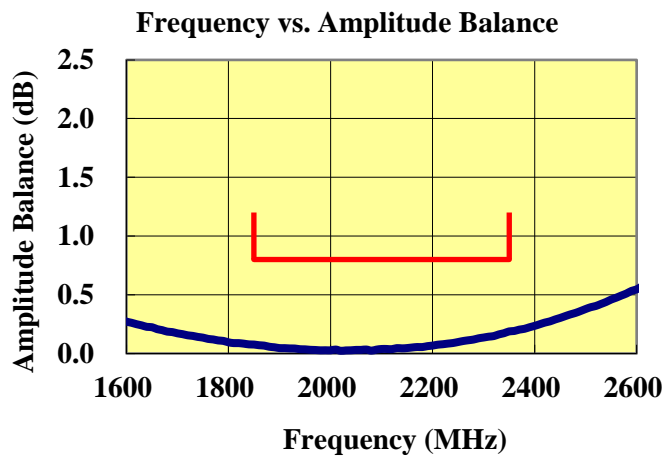
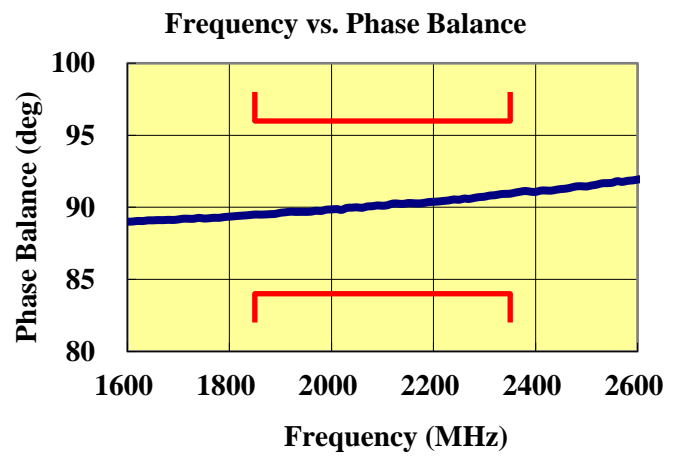
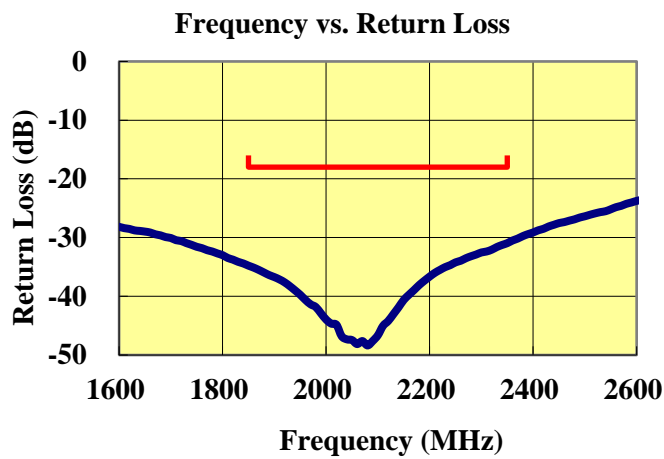
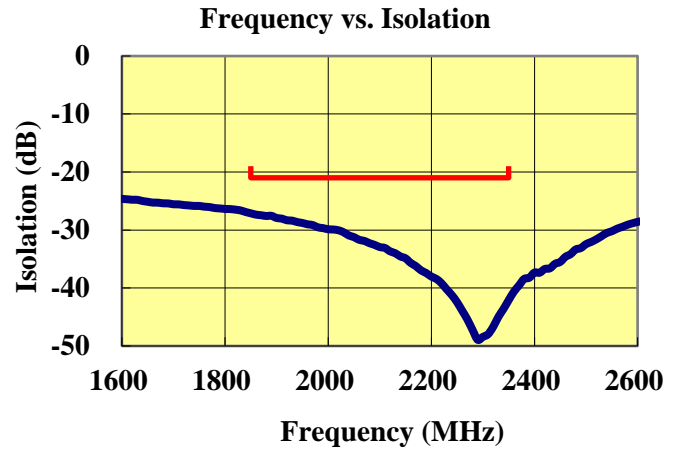
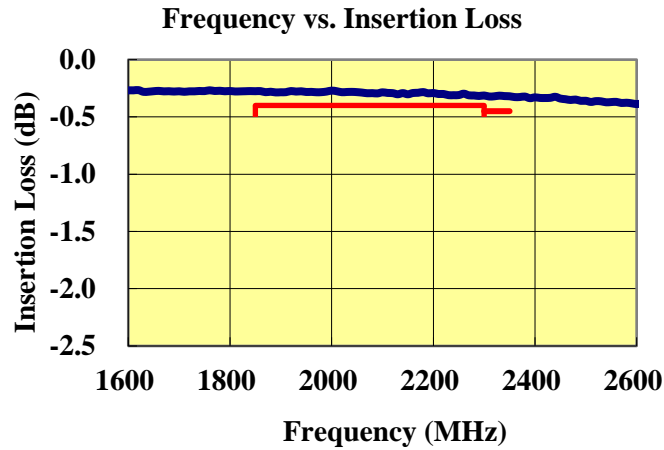
Product Information

Control No. : ARP-481400- H 2

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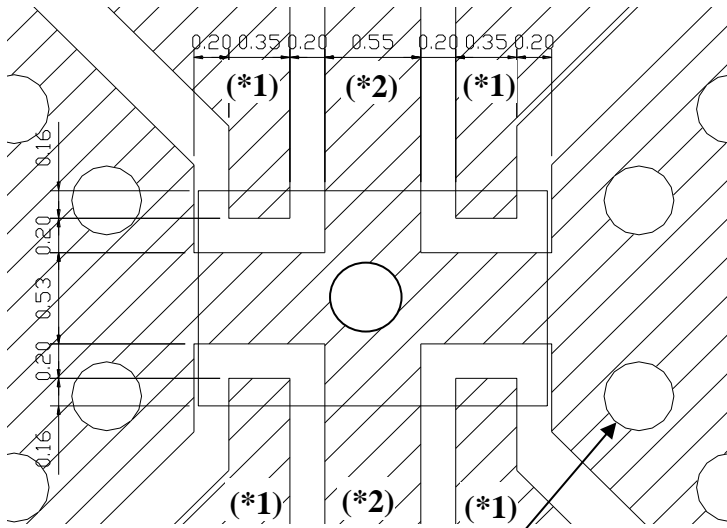
5.Representative characteristics

Measured data



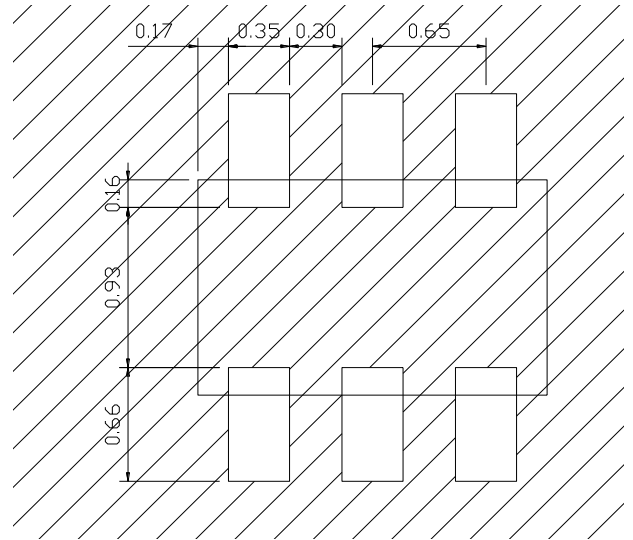
6.Recommended Land Pattern (Unit:mm)

*Land Pattern



Through hole ($\phi 0.4\text{mm}$)

*Resist Pattern



*1 50 ohm impedance Line

*2 Ground Plane