

Product Information

Control No. : ARP-4870300-L 1

Issued on July 16, 2020

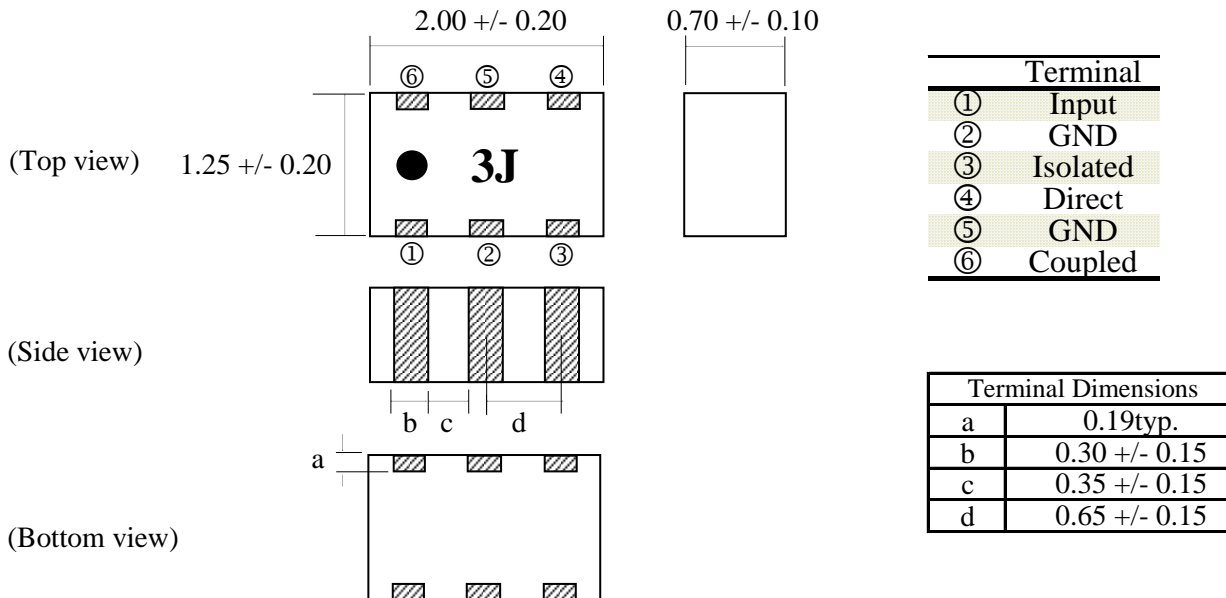
Application : 3dB 90deg Hybrid Coupler for 3070-4000MHz

1. Type No.

HMD8703D-HYB3500

RoHS Compliant Part

2. Dimension (Unit : mm)



3. Electrical characteristics

Parameter		Band1	Band2	Band3	Unit
Pass band frequency	Specification	3070-3805	3300-3700	3800-4000	MHz
Nominal impedance	Specification	50	50	50	ohm
Input port Return Loss	Specification	15 Min.	15 Min.	15 Min.	dB
	Typical	25.2	27.2	33.3	
Isolation	Specification	18 Min.	18 Min.	18 Min.	dB
	Typical	23.5	25.3	34.1	
Insertion Loss at 25degC.	Specification	0.35 Max.	0.35 Max.	0.40 Max.	dB
	Typical	0.19	0.19	0.18	
Amplitude balance	Specification	0.7 Max.	0.7 Max.	0.7 Max.	dB
	Typical	0.1	0.1	0.1	
Phase balance	Specification	90 +/- 7	90 +/- 7	90 +/- 7	deg
	Typical	89.2	89.3	89.2	
GroupDelay Input ↔ Direct	Specification	0.08 +/- 0.06	0.08 +/- 0.06	0.08 +/- 0.06	ns
	Typical	0.07	0.07	0.08	
GroupDelay Input ↔ Coupled	Specification	0.08 +/- 0.06	0.08 +/- 0.06	0.08 +/- 0.06	ns
	Typical	0.07	0.07	0.08	

4. Note

- | | |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 4W 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

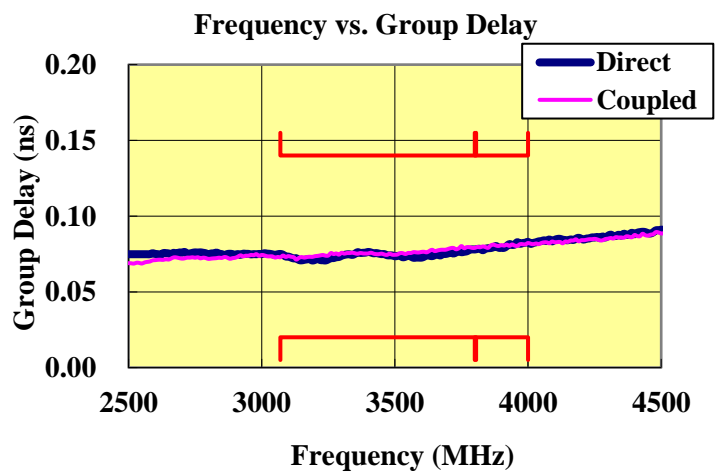
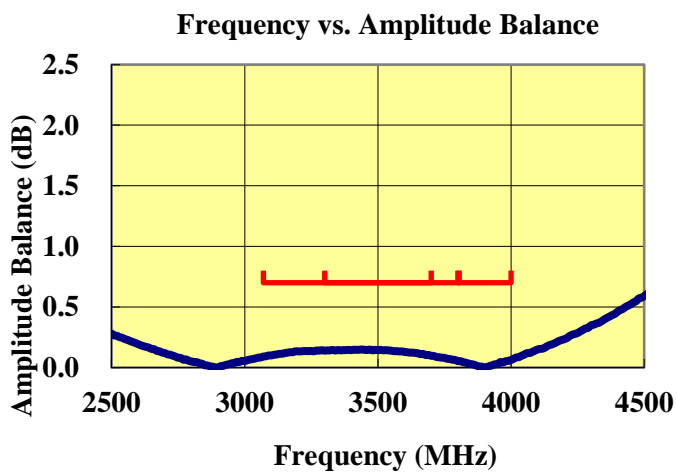
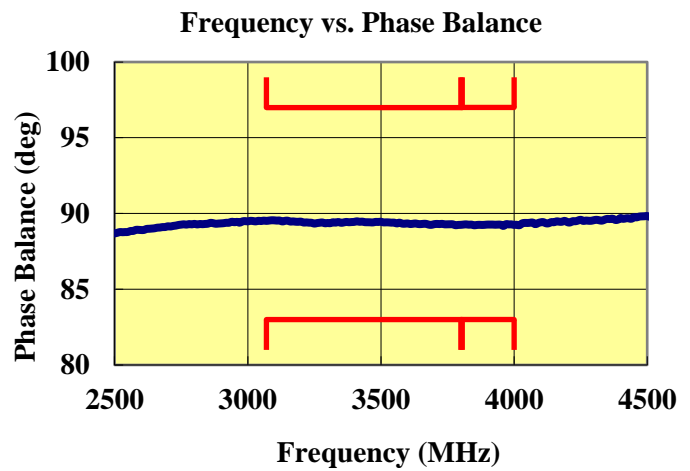
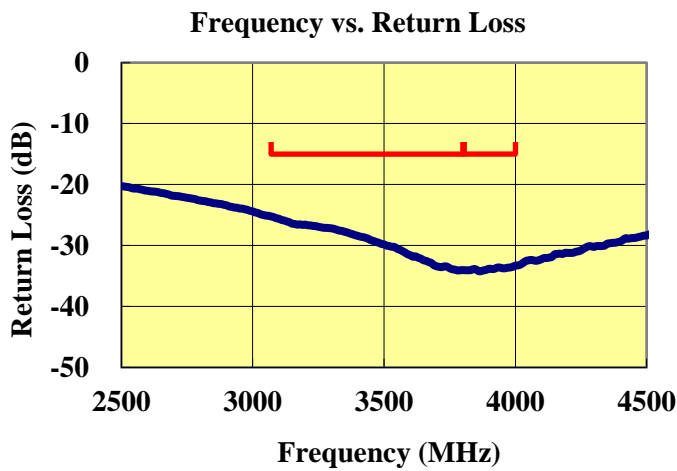
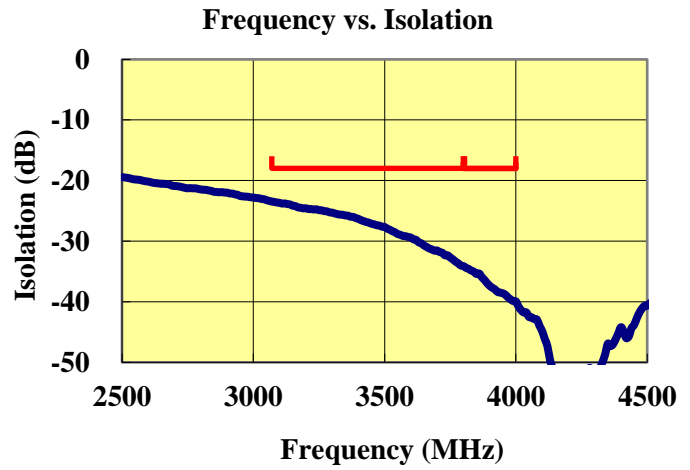
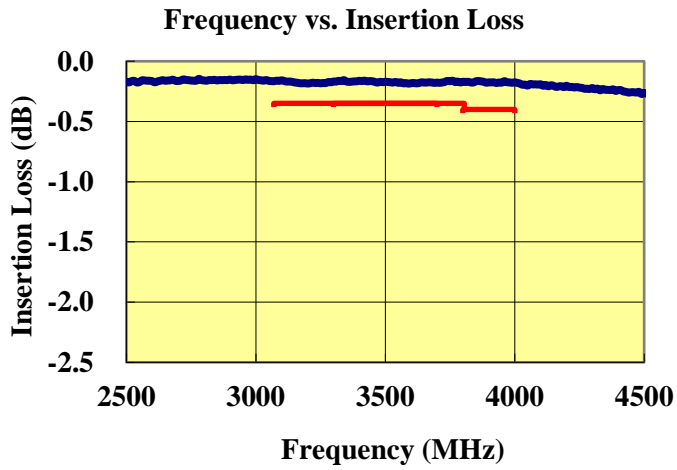
Product Information

Control No. : ARP-4870300-L2

Issued on July 16, 2020

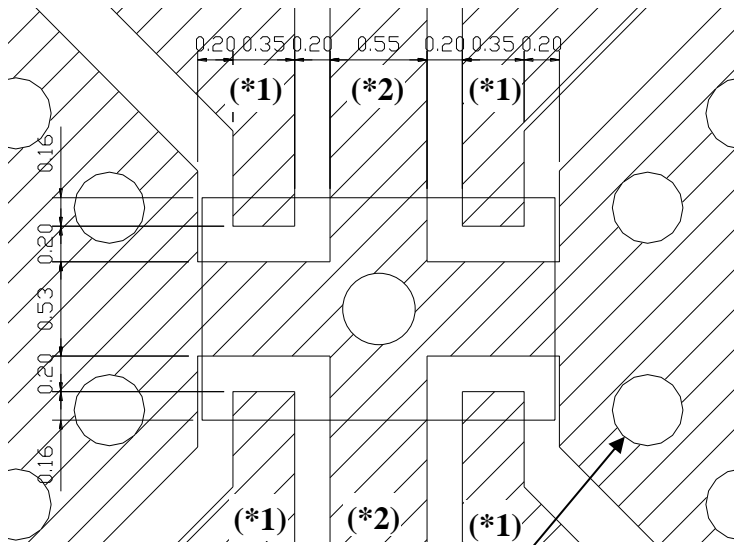
5. Representative characteristics

Measured data



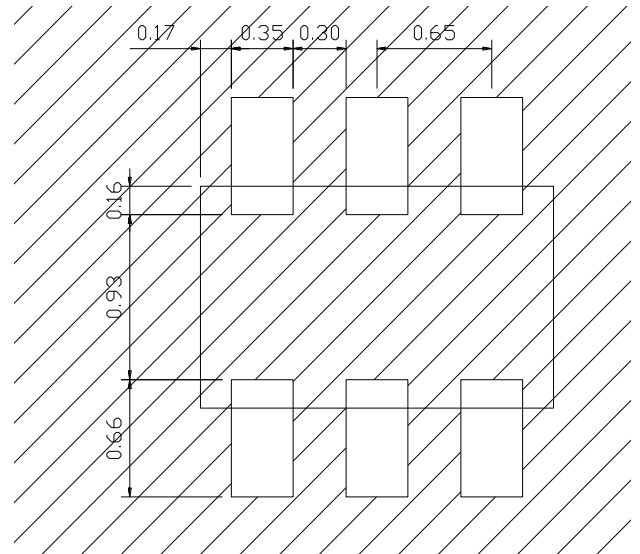
6.Recommended Land Pattern (Unit:mm)

*Land Pattern



Through hole (φ0.4mm)

*Resist Pattern



*1 50 ohm impedance Line

*2 Ground Plane