

Tentative Specification

(Under development)

Control No. : ARP-4871100-G 1

Issued on July 16, 2020

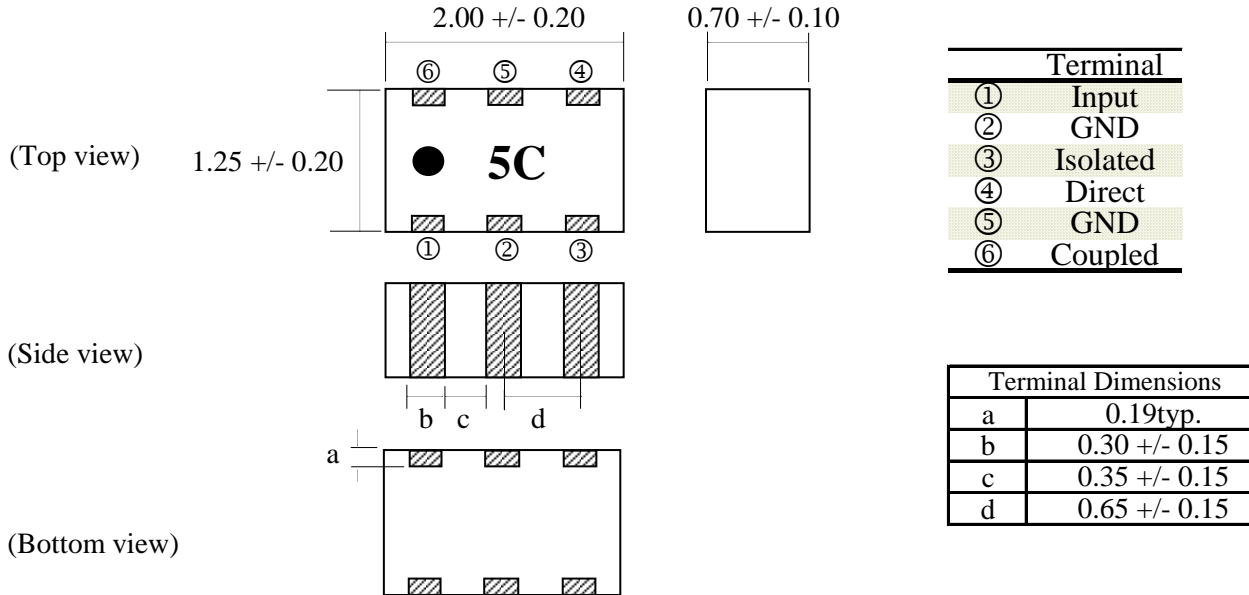
Application : 3dB 90deg Hybrid Coupler for 3200-5500MHz

1. Type No.

HMD8711D-HYB4500

RoHS Compliant Part

2. Dimension (Unit : mm)



3. Electrical characteristics

Parameter		Band1	Band2	Band3	Unit
Pass band frequency	Proposal	3200-4000	4000-5000	5000-5500	MHz
Nominal impedance	Proposal	50	50	50	ohm
Input port Return Loss	Proposal	20 Min.	20 Min.	20 Min.	dB
	Typical	33.0	32.3	30.2	
Isolation	Proposal	20 Min.	20 Min.	20 Min.	dB
	Typical	26.6	28.4	29.3	
Insertion Loss at 25degC.	Proposal	0.40 Max.	0.40 Max.	0.40 Max.	dB
	Typical	0.17	0.24	0.30	
Amplitude balance	Proposal	1.0 Max.	0.8 Max.	1.0 Max.	dB
	Typical	0.88	0.58	0.82	
Phase balance	Proposal	90 +/- 5	90 +/- 5	90 +/- 5	deg
	Typical	88.9	89.1	89.2	

4. Note

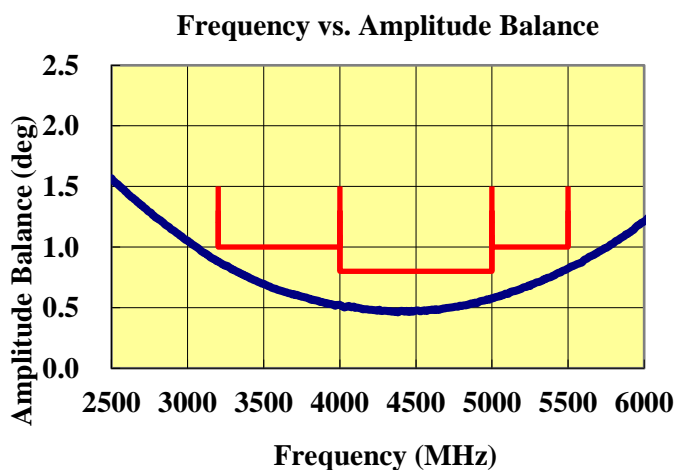
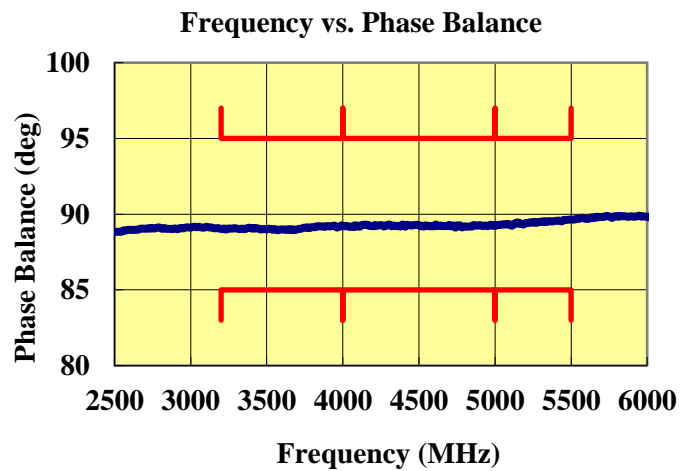
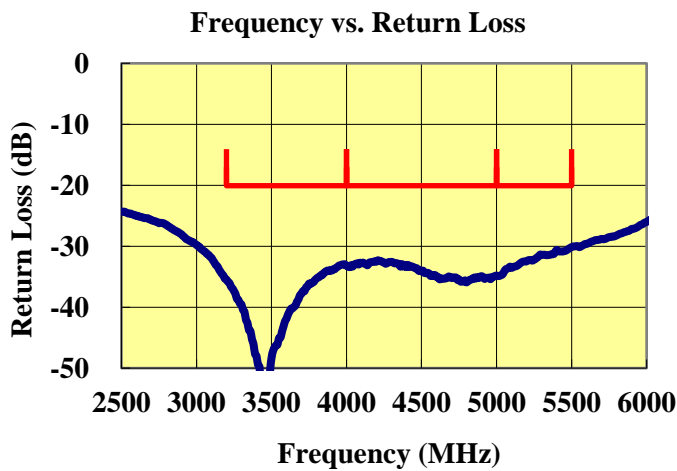
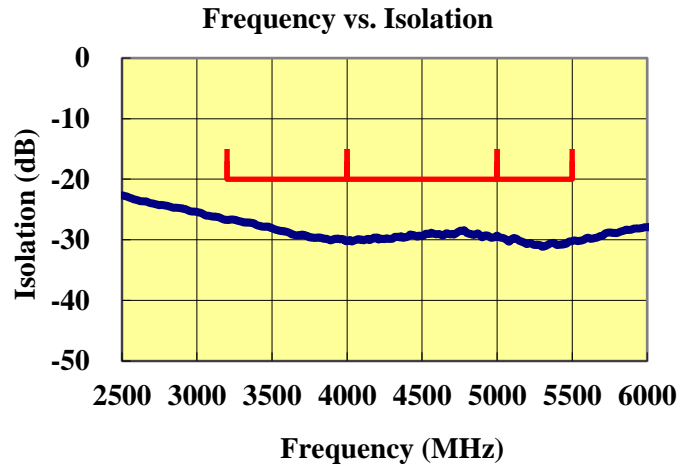
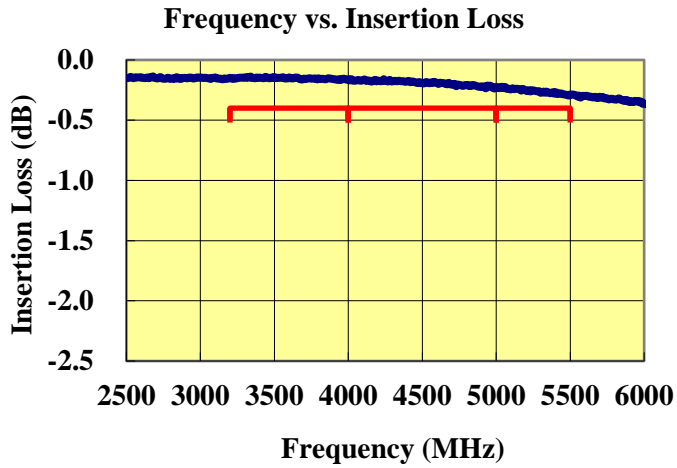
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|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 4W Avg/CW |
| 4.4 Standard Reel Quantity | : 2,000 pcs (per reel, per bag) |

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

SOSHIN ELECTRIC CO., LTD

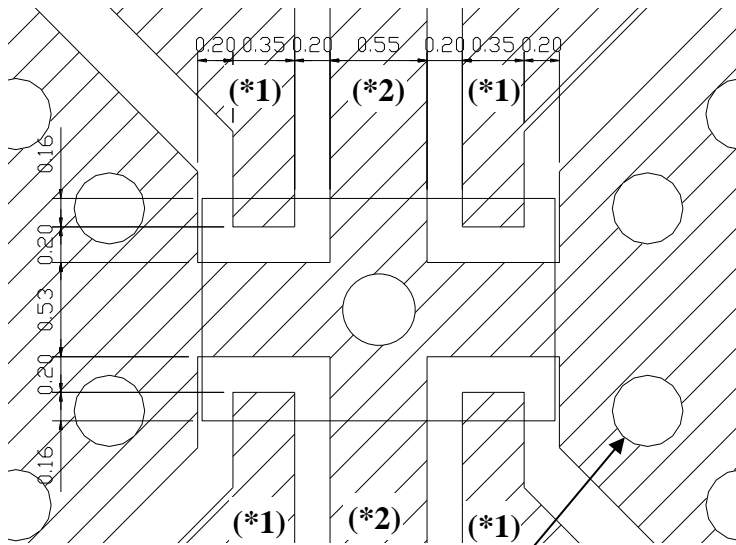
5.Representative characteristics

Measured data



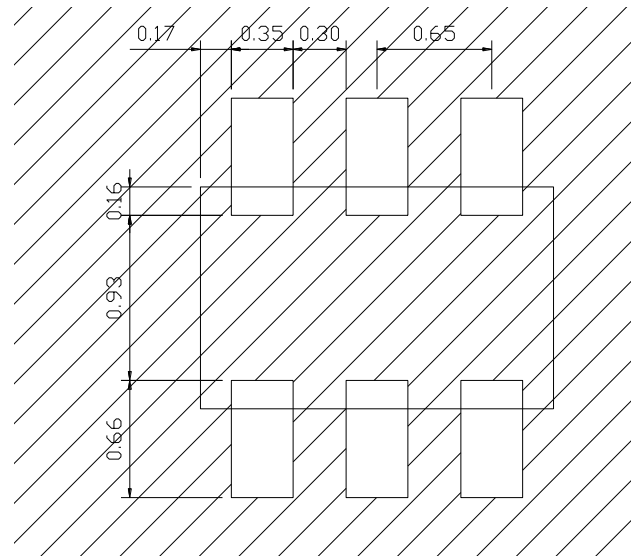
6.Recommended Land Pattern (Unit:mm)

***Land Pattern**



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

***Resist Pattern**



*1 50 ohm impedance Line

*2 Ground Plane