

Product Information

Control No. : ARP-4870800-J 1

Issued on July 16, 2020

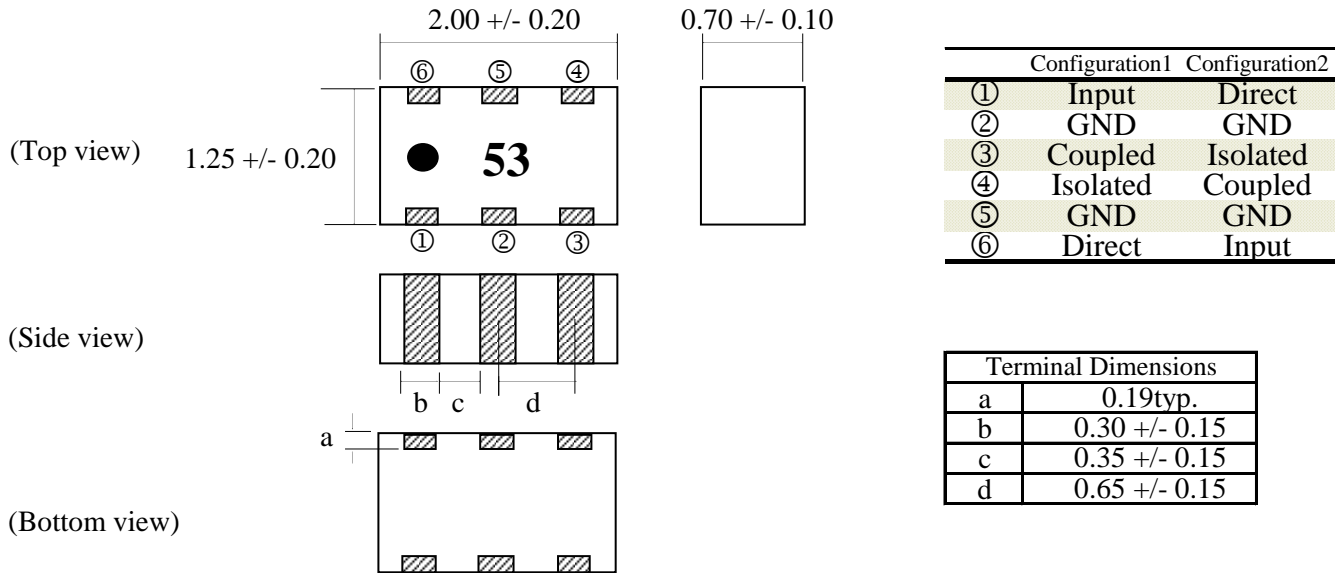
Application : 20dB Directional Coupler for 2300-2900MHz

1. Type No.

HMD8708D-20M2600

RoHS Compliant Part

2. Dimension (Unit : mm)



3. Electrical characteristics

Parameter		Band1	Band2	Unit	Remark
Pass band frequency	Specification	2300-2900	2496 - 2690	MHz	
Nominal impedance	Specification	50	50	ohm	
Input port return loss	Specification	18.0 Min.	20.0 Min.	dB	
	Typical	30.2	31.0		
Directivity	Specification	18.0 Min.	20.0 Min.	dB	
	Typical	27.2	30.9		
Insertion Loss at 25degC.	Specification	0.10 Max.	0.10 Max.	dB	
	Typical	0.07	0.07		
Mean Coupling	Specification	18.5 to 21.5	18.5 to 21.5	dB	
	Typical	19.8	19.7		
Frequency sensitivity	Specification	0.70 Max.	0.30 Max.	dB	Cpl(max)-Cpl(mean)
	Typical	0.11	0.03		

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 | : 10W Avg/CW |
| 4.4 Standard Reel Quantity | : 2,000 pcs (per reel, per bag) |

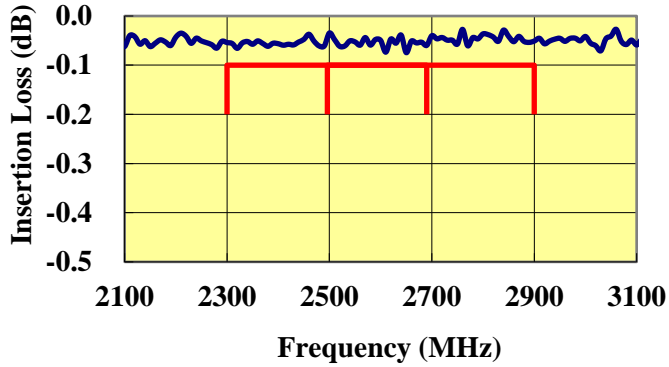
Approved by	Confirmed by	Raised by
Y. Mizutani	T. Hasegawa	M. Aiba

SOSHIN ELECTRIC CO., LTD

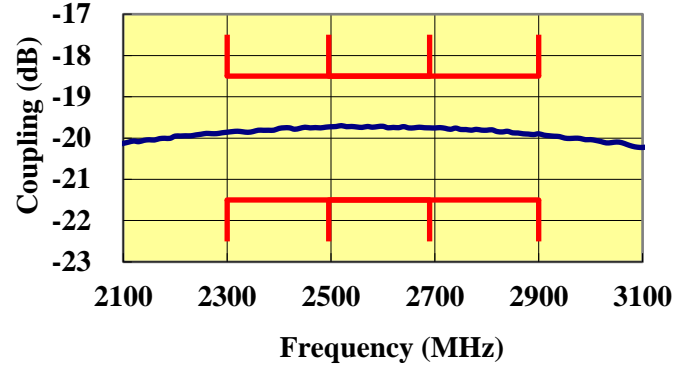
5.Representative characteristics

Measured data

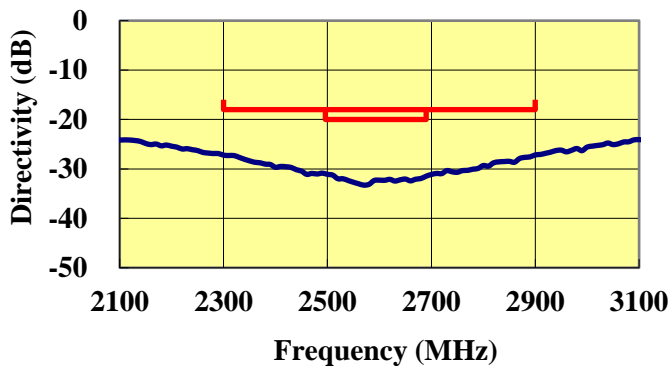
Frequency vs. Insertion Loss



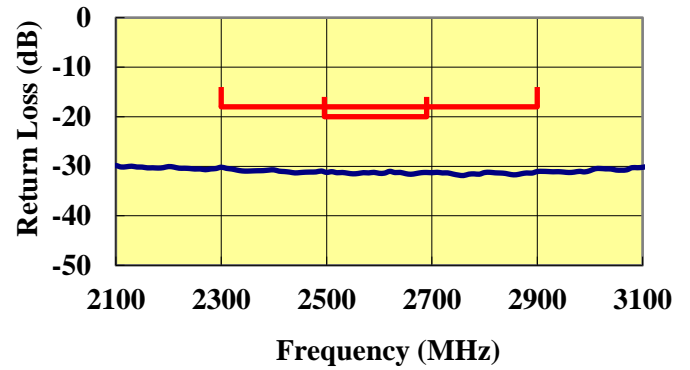
Frequency vs. Coupling



Frequency vs. Directivity

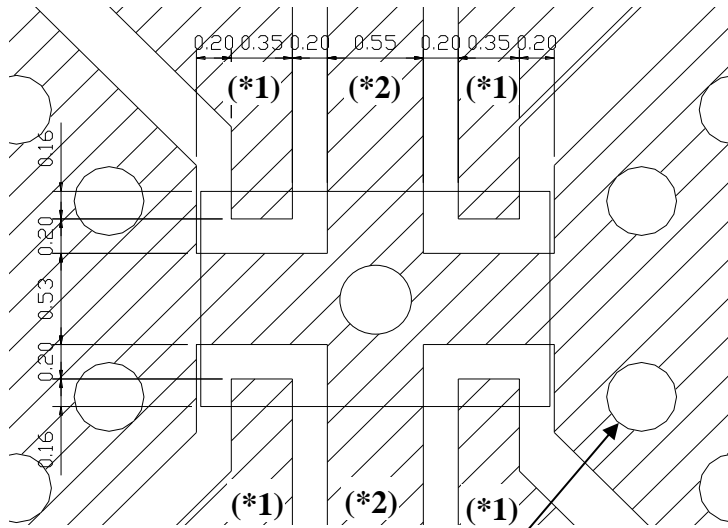


Frequency vs. Return Loss

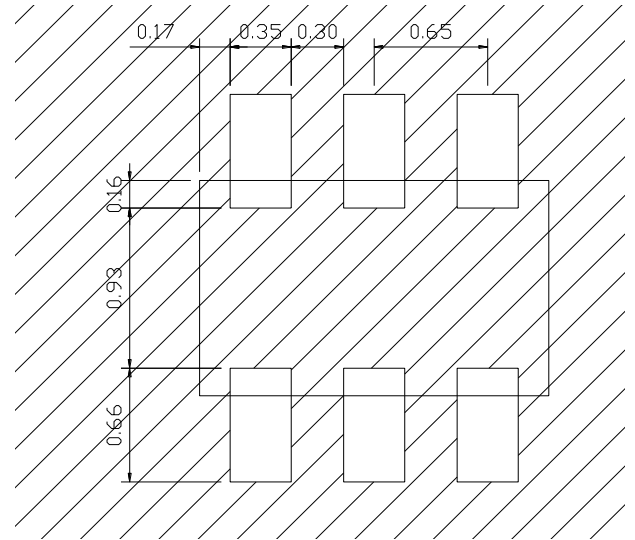


6.Recommended Land Pattern (Unit:mm)

*Land Pattern



*Resist Pattern



Through hole (φ0.4mm)

*1 50 ohm impedance Line

*2 Ground Plane

7.Power Derating Curve

