

Product Information

Control No. : ARP-4270000-F 1

Issued on July 10, 2020

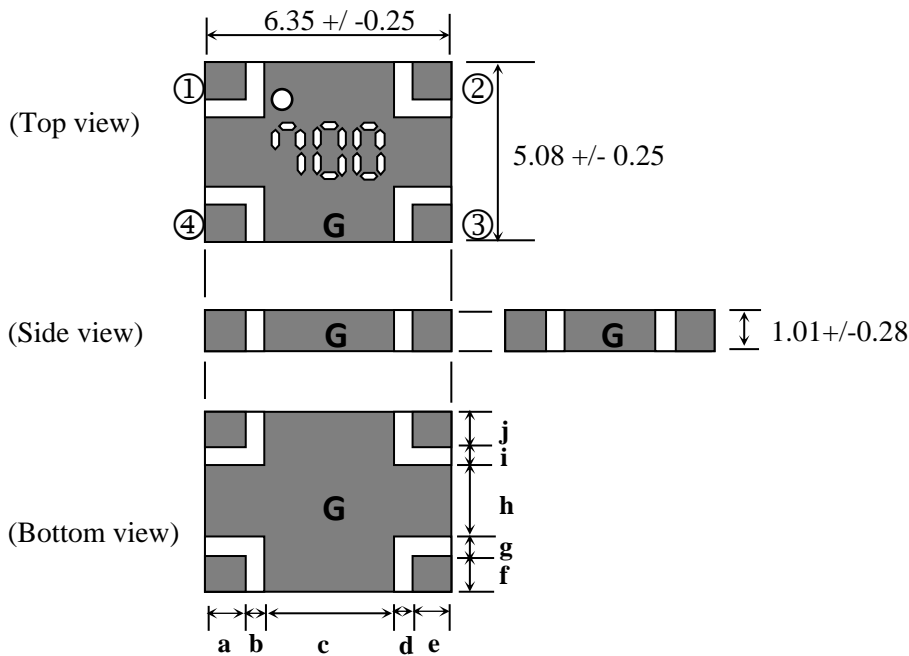
Application : 3dB 90deg Hybrid Coupler for 698-1000MHz

1. Type No.

HMD2700A-HYB0850

RoHS Compliant Part

2. Dimension (Unit : mm)



Terminal	
①	IN
②	ISOLATION
③	OUT(90deg)
④	OUT(0deg)
G	GND

Terminal Dimensions	
a	1.02 +/- 0.10
b	0.51 +/- 0.20
c	3.30 +/- 0.20
d	0.51 +/- 0.20
e	1.02 +/- 0.10
f	1.02 +/- 0.10
g	0.51 +/- 0.20
h	2.08 +/- 0.20
i	0.51 +/- 0.20
j	1.02 +/- 0.10

3. Electrical characteristics

Parameter		Band1	Band2	Unit	Remark
Frequency Range	Specification	698-800	800-1000	MHz	
Nominal impedance	Specification	50	50	ohm	
Isolation	Specification	23 Min.	23 Min.	dB	
	Typical	25.6	28.7		
Insertion Loss	Specification	0.20 Max.	0.20 Max.	dB	
	Typical	0.11	0.11		
Input port VSWR	Specification	1.20 Max.	1.15 Max.	-	
	Typical	1.11	1.07		
Amplitude balance	Specification	+0.35/-0.55	0.20 Max.	dB	
	Typical	-0.33	0.07		
Phase balance	Specification	90 +/- 4	90 +/- 4	deg	
	Typical	89.5	91.0		

4. Note

- | | |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +95 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 150 W Avg/CW |
| 4.4 Standard Reel Quantity | : 1,000 pcs (per reel, per bag) |

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

SOSHIN ELECTRIC CO., LTD

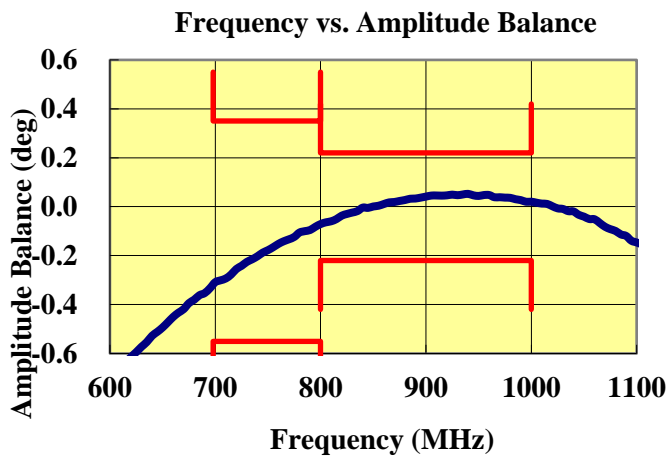
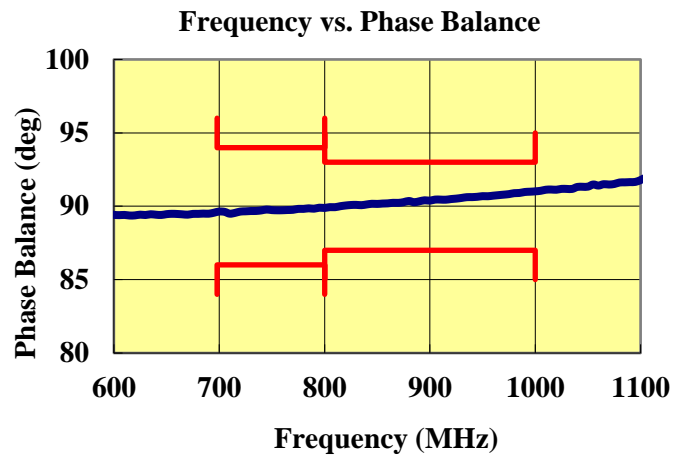
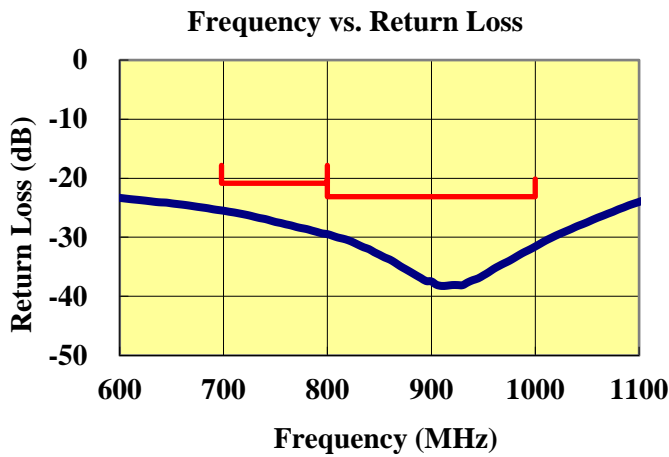
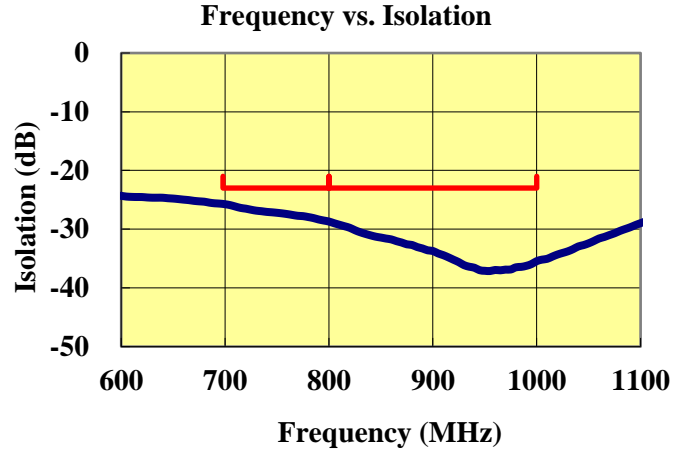
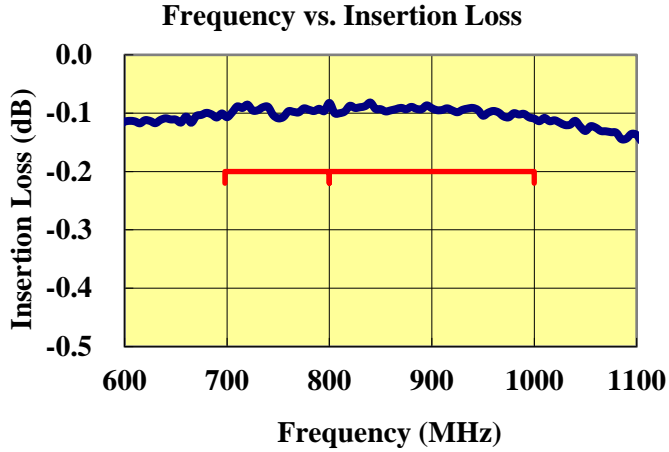
Product Information

Control No. : ARP-4270000-F 2

Issued on July 10, 2020

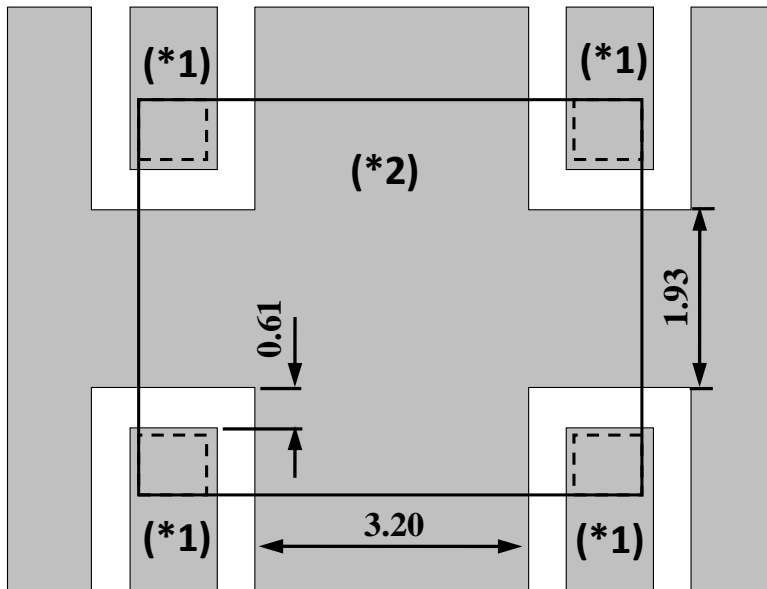
5.Representative characteristics

Measured Data



6.Recommended Land Pattern (Unit:mm)

Land Pattern



(*1) 50 ohm impedance line
(*2) Ground Plane

Resist Pattern

