

Product Information

Control No. : ARP-4271200-C 1

Issued on July 10, 2020

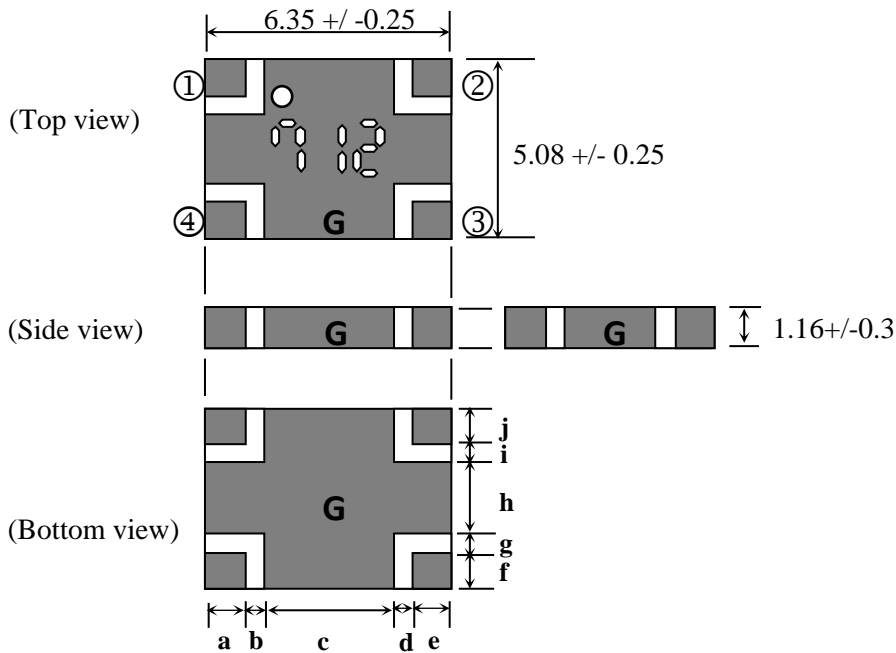
Application : 3dB 90deg Hybrid Coupler for 791-821MHz

1. Type No.

HMD2712A-HYB0800

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	Specification	Band1	Unit	Remark
Frequency Range	Specification	791-821	MHz	
Nominal impedance	Specification	50	ohm	
Isolation	Specification	23 Min.	dB	
	Typical	32.7		
Insertion Loss	Specification	0.20 Max.	dB	
	Typical	0.14		
Input port VSWR	Specification	1.15 Max.	-	
	Typical	1.03		
Amplitude balance	Specification	0.22 Max.	dB	
	Typical	0.02		
Phase balance	Specification	90 +/- 4	deg	
	Typical	89.4		

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 | : 130 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

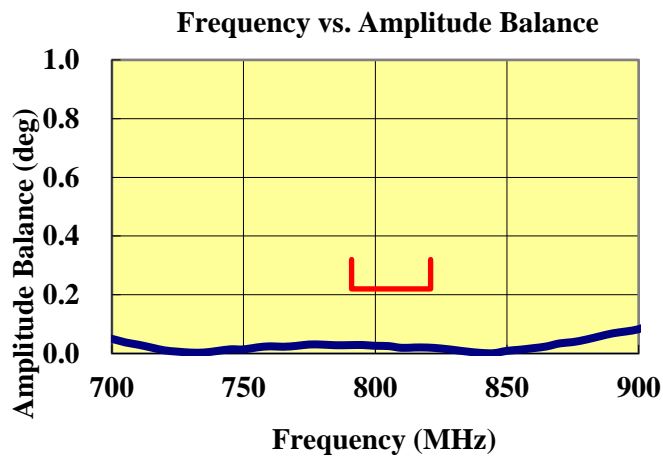
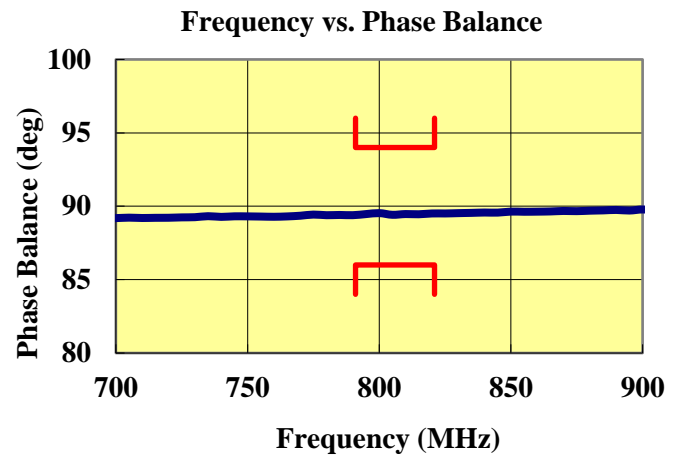
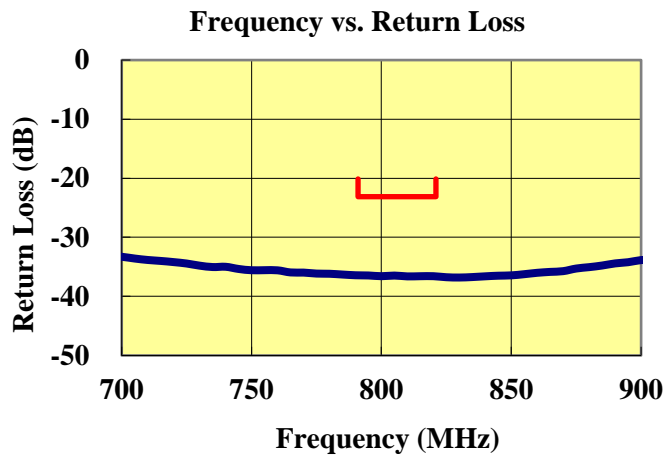
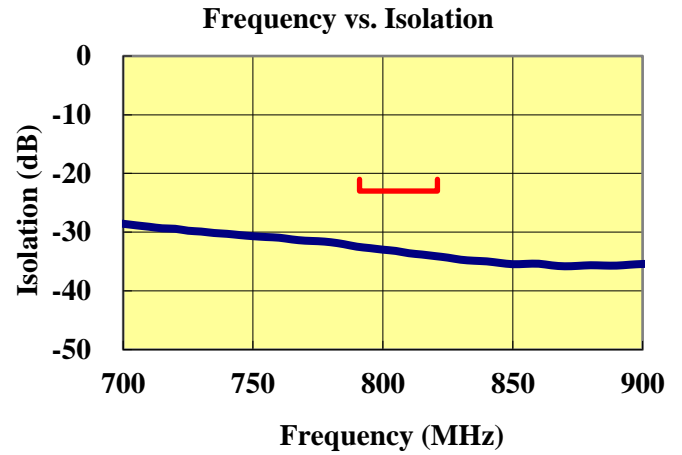
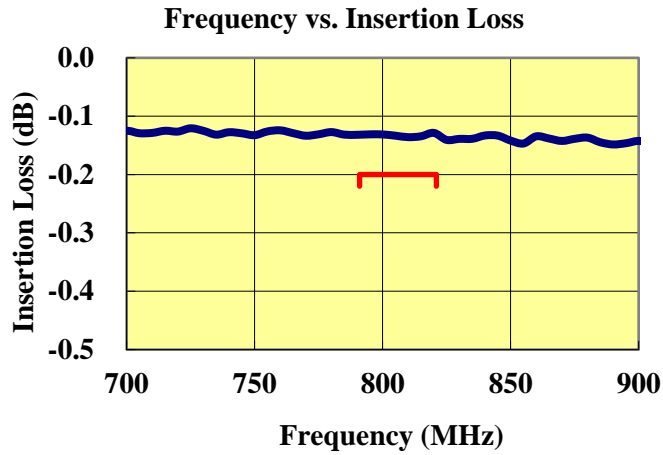
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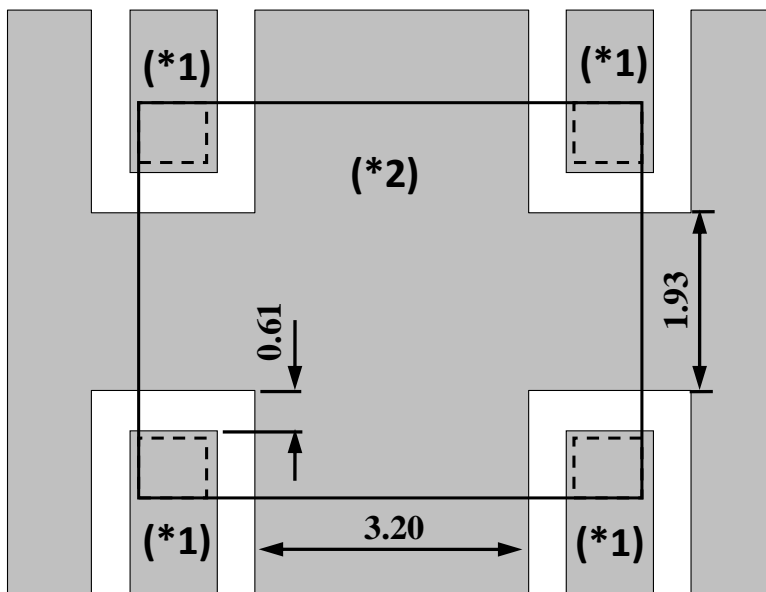
5.Representative characteristics

Measured Data



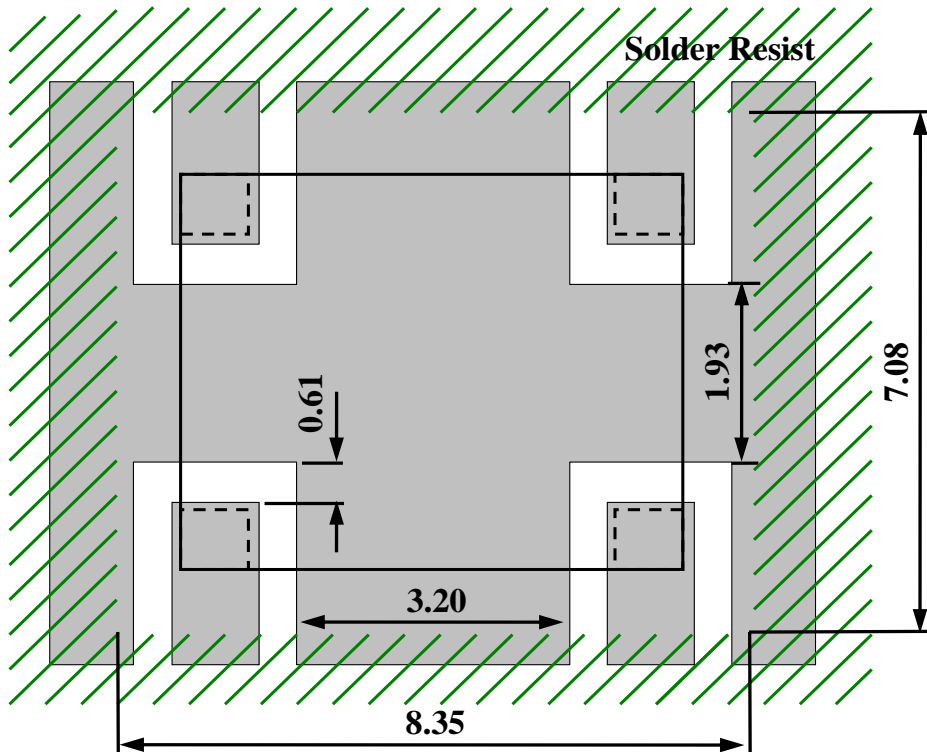
6.Recommended Land Pattern (Unit:mm)

Land Pattern



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

Resist Pattern



Solder Resist