

Product Information

Control No. : ARP-4270100-H 1

Issued on July 13, 2020

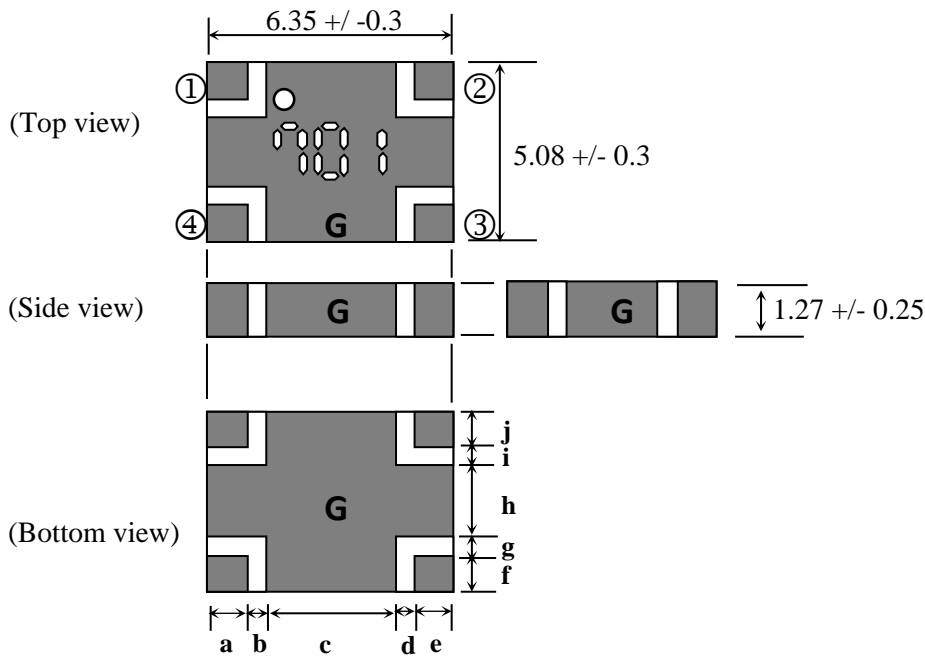
Application : 3dB 90deg Hybrid Coupler for 2000-2400MHz

1. Type No.

HMD2701A-HYB2200

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	Band3	Unit	Remark
Frequency Range	Specification	2110-2170	2000-2300	2300-2400	MHz	
Nominal impedance	Specification	50	50	50	ohm	
Isolation	Specification	26 Min.	23 Min.	26 Min.	dB	
	Typical	30.5	28.7	35.5		
Insertion Loss	Specification	0.17 Max.	0.22 Max.	0.25 Max.	dB	
	Typical	0.15	0.17	0.16		
Input port VSWR	Specification	1.12 Max.	1.15 Max.	1.33 Max.	-	
	Typical	1.07	1.08	1.09		
Amplitude balance	Specification	0.22 Max.	0.22 Max.	0.40 Max.	dB	
	Typical	0.08	0.09	0.06		
Phase balance	Specification	90 +/- 2	90 +/- 3	90 +/- 4	deg	
	Typical	89.7	89.7	89.6		

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 | : 110 W Avg/CW (2110-2170MHz) |
| | : 90 W Avg/CW (2000-2300MHz) |
| | : 90 W Avg/CW (2300-2400MHz) |
| 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

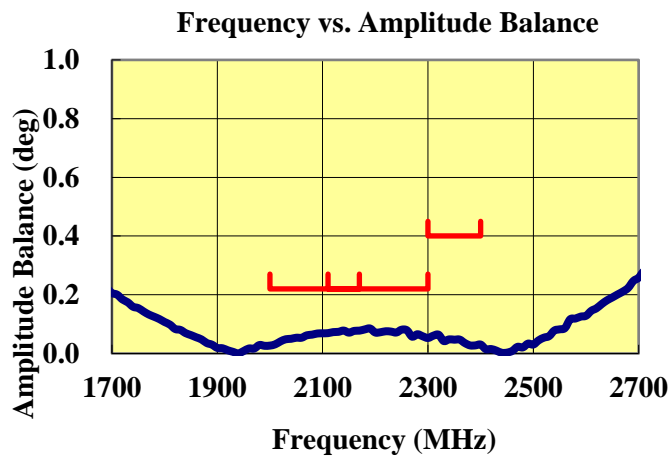
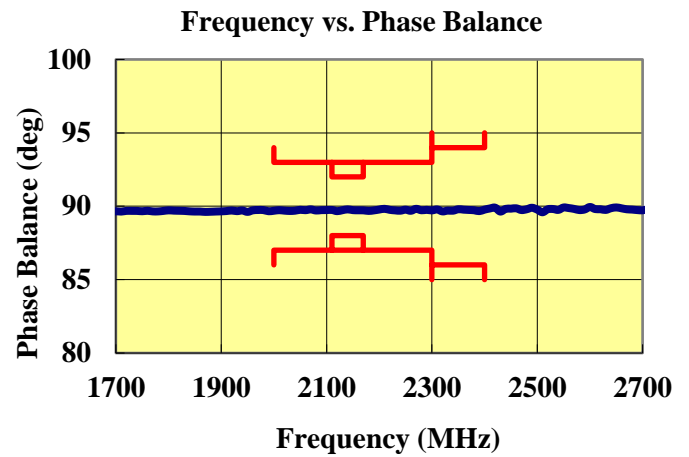
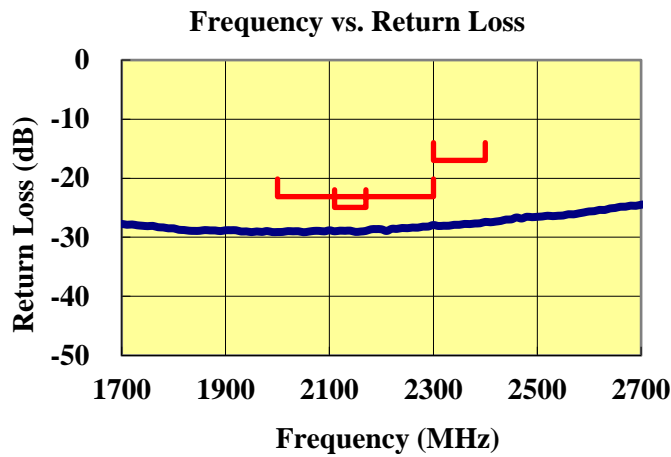
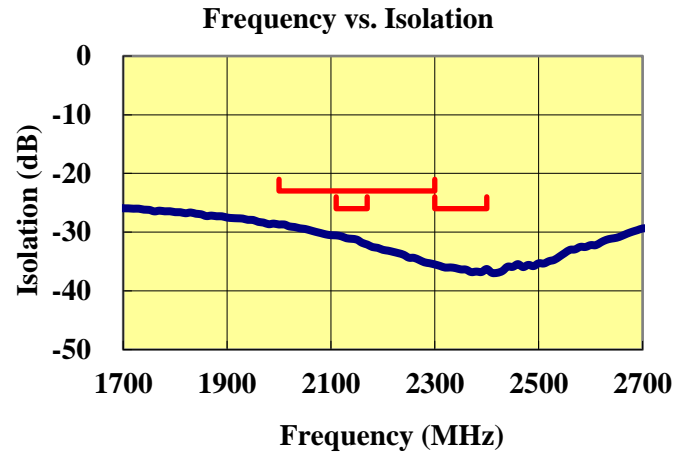
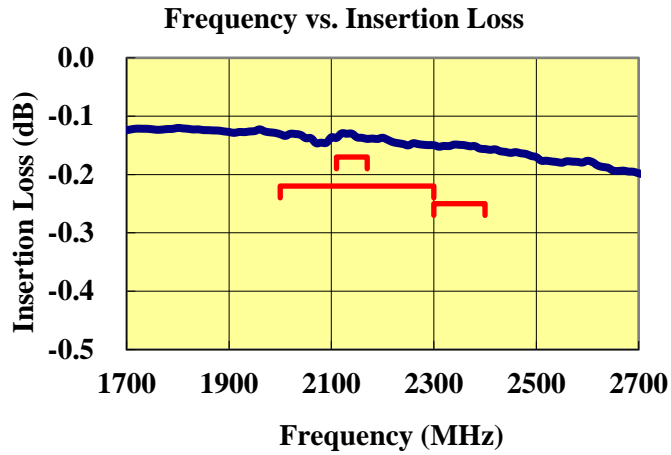
Product Information

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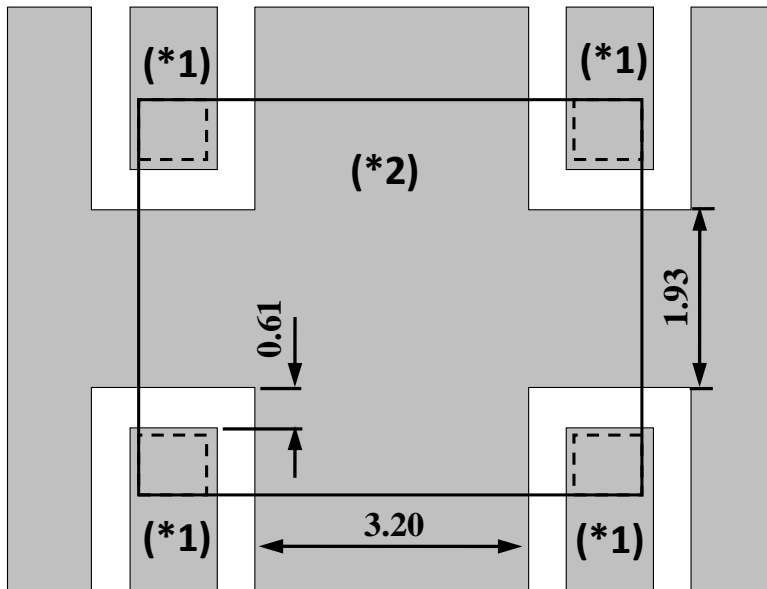
Measured Data

5.Representative characteristics



6.Recommended Land Pattern (Unit:mm)

Land Pattern



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

Resist Pattern

