

Tentative Specification

(Under development)

Control No. : ARP-4671400-B 1

Issued on July 13, 2020

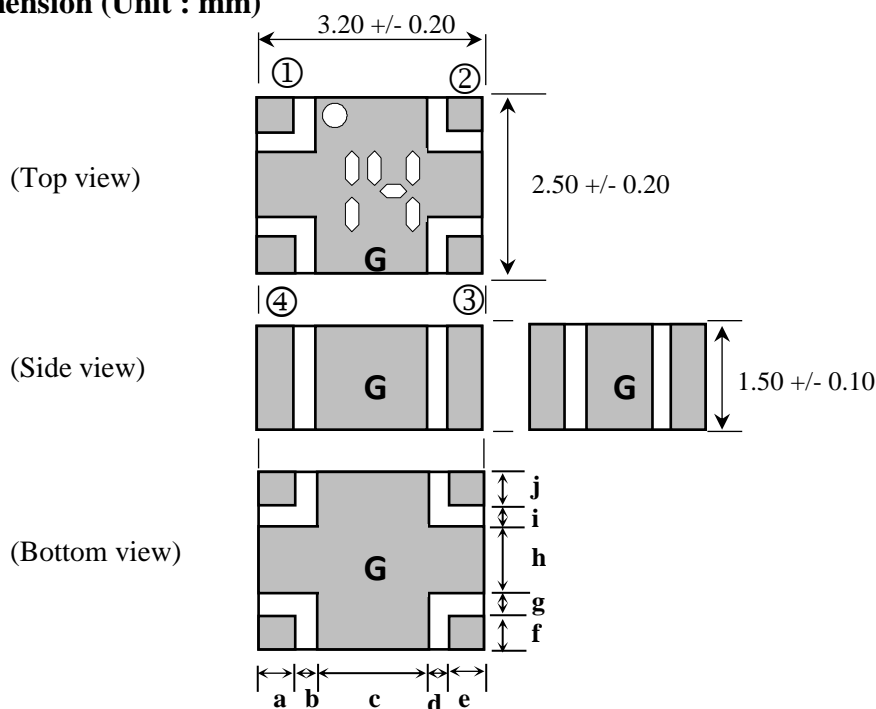
Application : 3dB 90deg Hybrid Coupler for 2300-4200MHz

1. Type No.

HMD6714D-HYB3500

RoHS Compliant Part

2. Dimension (Unit : mm)



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

Terminal Dimensions	
a	0.52 ± 0.10
b	0.30 ± 0.10
c	1.56 ± 0.10
d	0.30 ± 0.10
e	0.52 ± 0.10
f	0.49 ± 0.10
g	0.30 ± 0.10
h	0.92 ± 0.10
i	0.30 ± 0.10
j	0.49 ± 0.10

3. Electrical characteristics

Parameter		Band1	Band2	Unit
Pass band frequency	Proposal	2300-3200	3200-4200	MHz
Nominal impedance	Proposal	50	50	ohm
Input port VSWR	Proposal	1.22 Max.	1.29 Max.	-
	Typical	1.17	1.22	
Isolation	Proposal	20.0 Min.	18.0 Min.	dB
	Typical	22.3	21.8	
Insertion Loss at 25degC.	Proposal	0.25 Max.	0.35 Max.	dB
	Typical	0.18	0.28	
Amplitude balance	Proposal	0.9 Max.	0.9 Max.	dB
	Typical	0.77	0.74	
Phase balance	Proposal	90 +/- 5	90 +/- 5	deg
	Typical	89.2	89.3	

4. Note

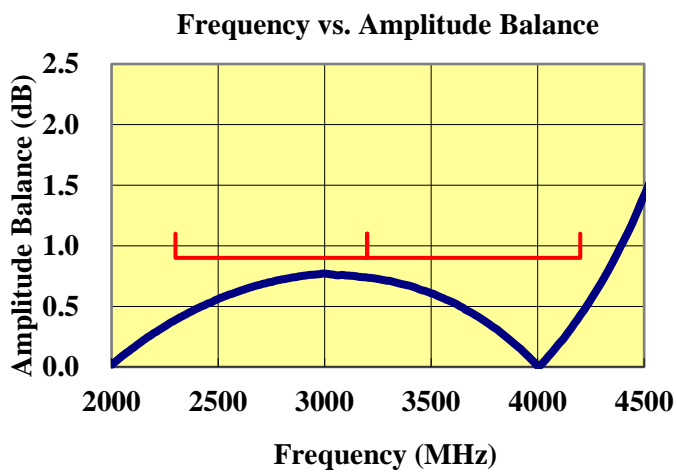
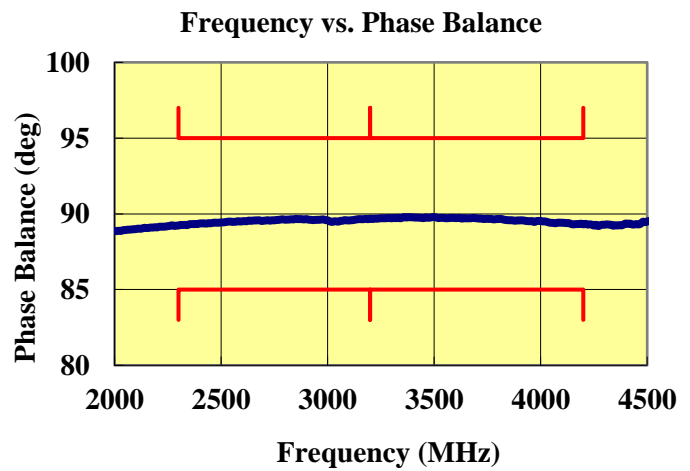
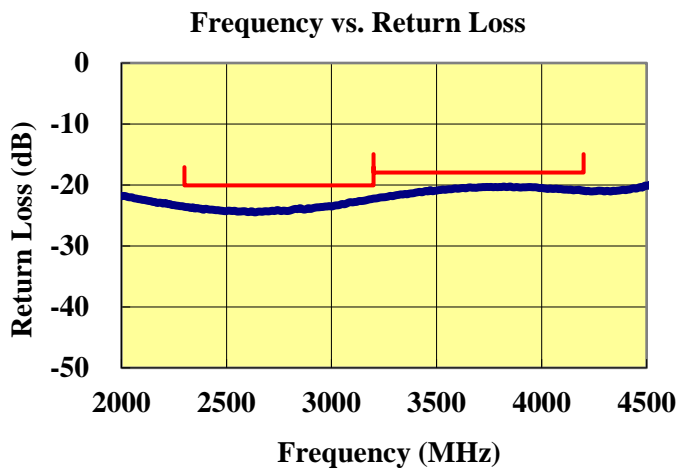
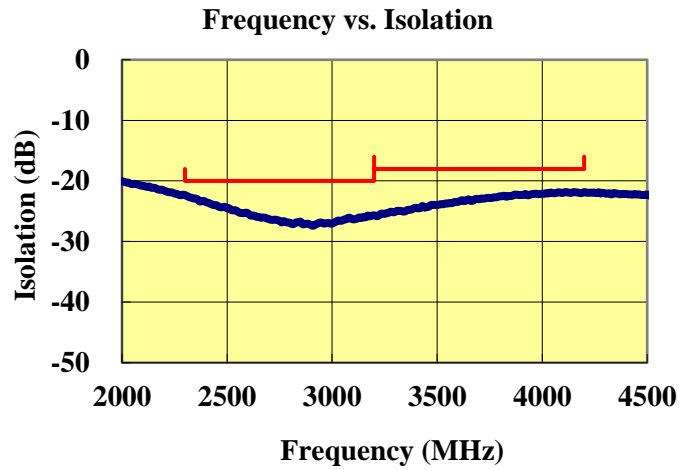
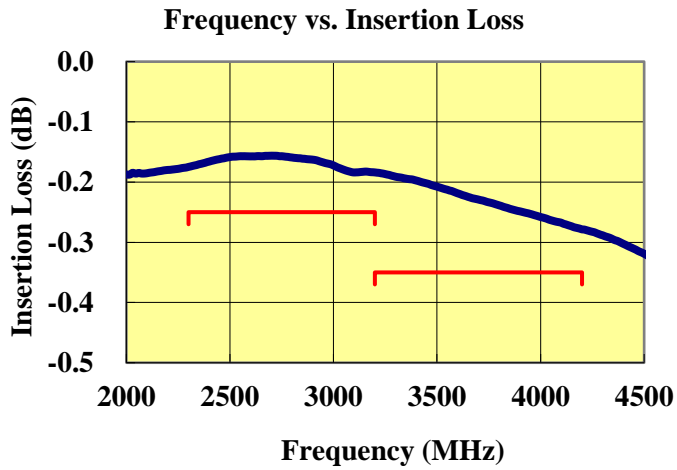
- | | |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 50W Avg/CW |
| 4.4 Standard Reel Quantity | : 2,000 pcs (per reel, per bag) |

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

SOSHIN ELECTRIC CO., LTD

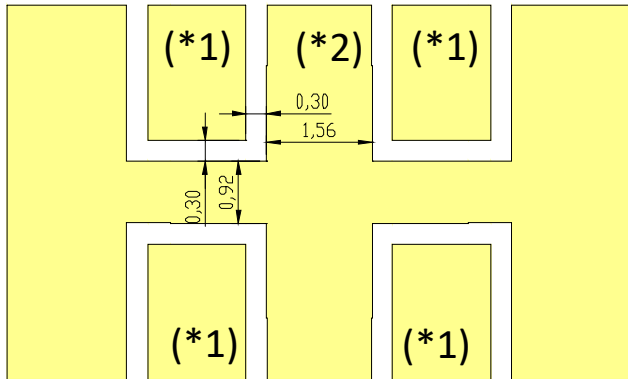
5.Representative characteristics

Measured data

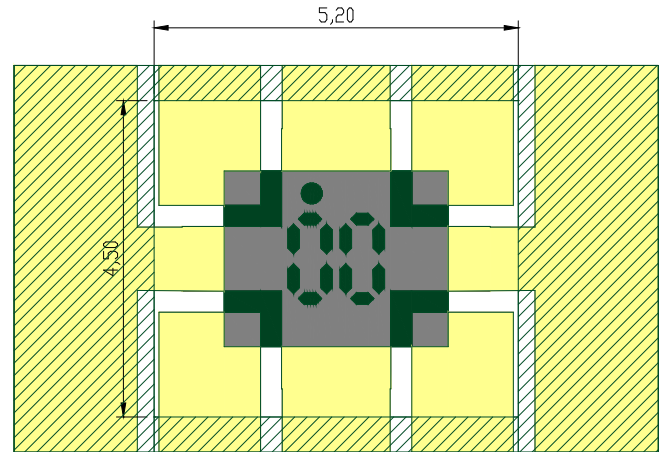


6.Recommended Land Pattern (Unit:mm)

***Land Pattern**



***Resist Pattern**



*1 50 ohm impedance Line

*2 Ground Plane