

Product Information

Control No. : ARP-4271700-H 1

Issued on July 10, 2020

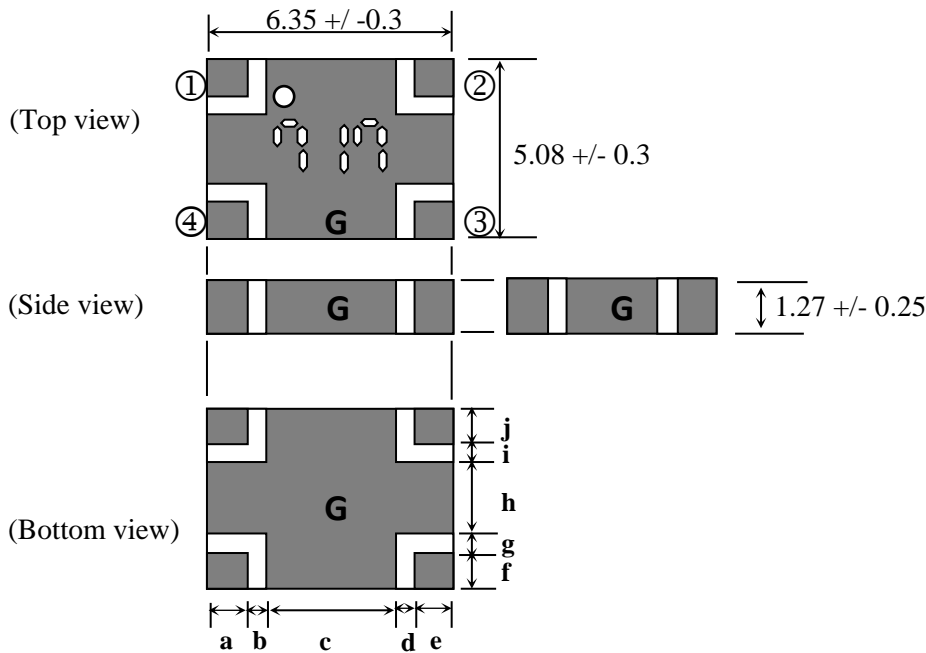
Application : 3dB 90deg Hybrid Coupler for 1700-2170MHz

1. Type No.

HMD2717A-HYB1950

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	1700-2000	2000-2170	MHz	
Nominal impedance	Specification	50	50	ohm	
Isolation	Specification	23 Min.	23 Min.	dB	
	Typical	32.4	35.0		
Insertion Loss	Specification	0.22 Max.	0.22 Max.	dB	
	Typical	0.12	0.14		
Input port VSWR	Specification	1.15 Max.	1.20 Max.	-	
	Typical	1.05	1.10		
Amplitude balance	Specification	0.22 Max.	0.30 Max.	dB	
	Typical	0.05	0.17		
Phase balance	Specification	90 +/- 4	90 +/- 4	deg	
	Typical	90.8	90.9		

4. Note

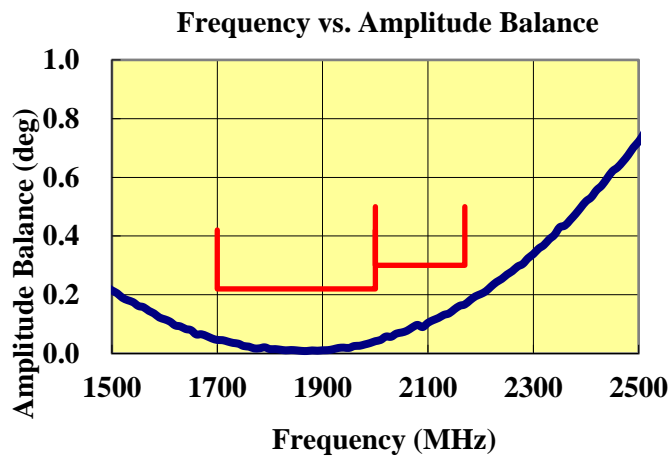
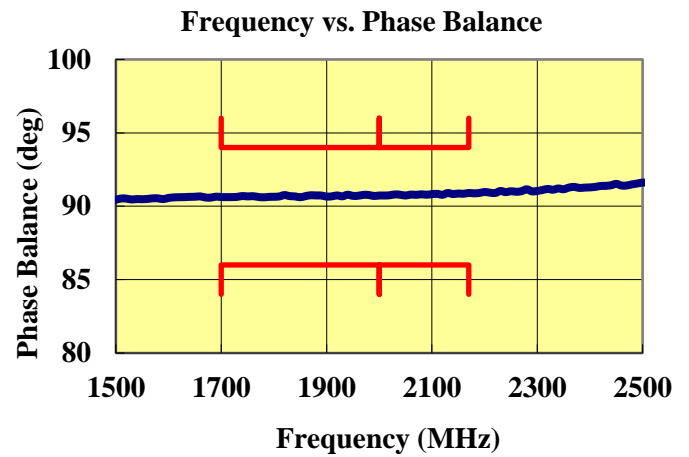
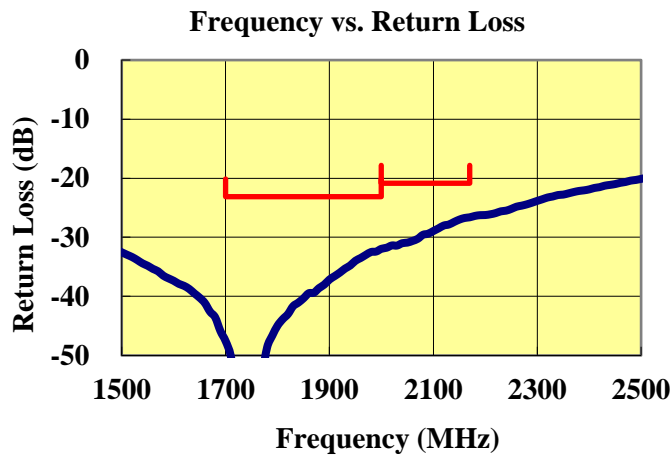
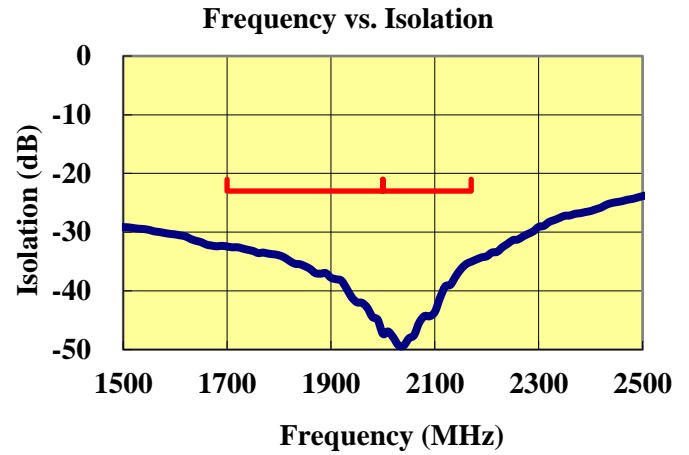
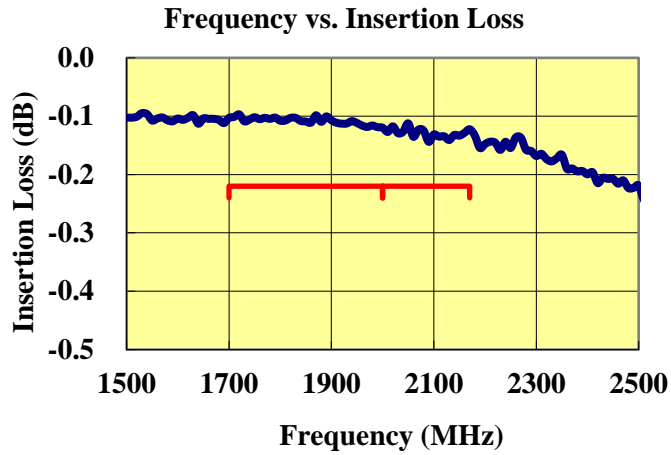
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|---------------------------------|---|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 150 W Avg/CW (-55 to 95 deg.C)
: 130 W Avg/CW (-55 to 105 deg.C) |
| 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

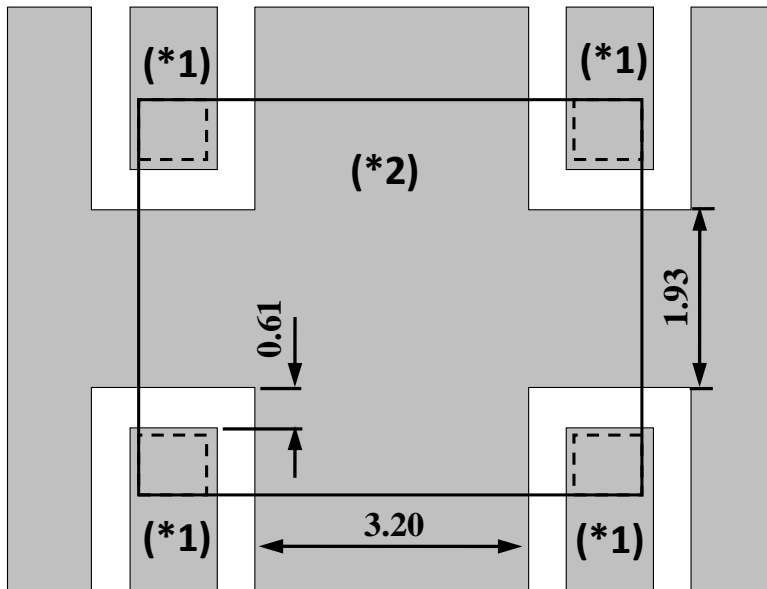
5.Representative characteristics

Measured Data



6.Recommended Land Pattern (Unit:mm)

Land Pattern



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

Resist Pattern

