

# Product Information

Control No. : ARP-4670700-E 1

Issued on July 13, 2020

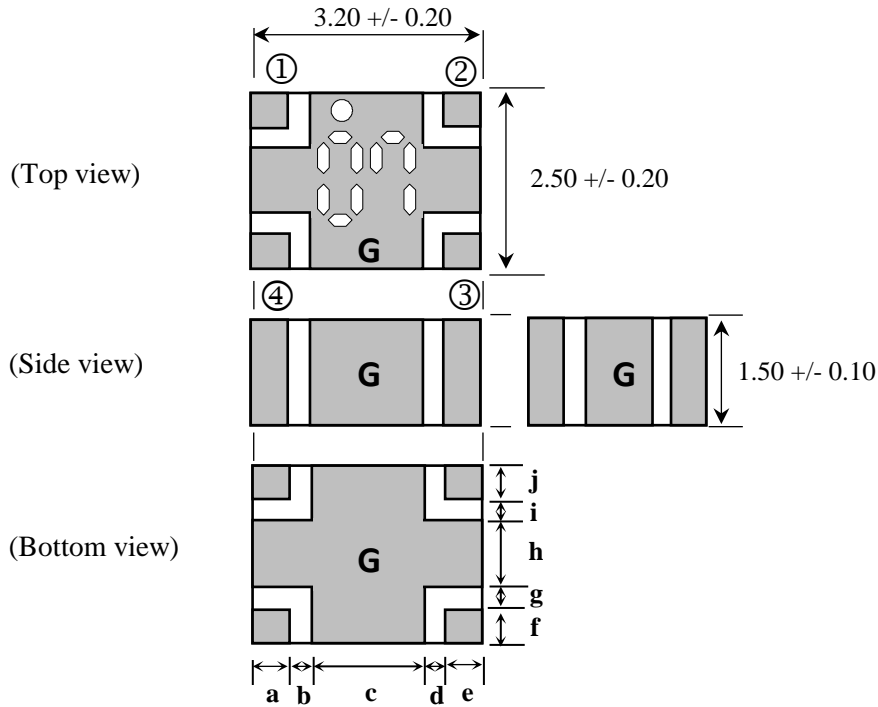
## Application : 20dB Directional Coupler for 2200-3000MHz

### 1. Type No.

HMD6707D-20M2500

**RoHS Compliant Part**

### 2. Dimension (Unit : mm)



	Configuration1	Configuration2
①	Input	Direct
②	Direct	Input
③	Isolated	Coupled
④	Coupled	Isolated
G	GND	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	Specification	2200-3000	2490-2690	MHz
Nominal impedance	Specification	50	50	ohm
Mean Coupling	Specification	20.0 +/- 1.5	20.0 +/- 1.5	dB
	Typical	19.54	19.43	
Insertion Loss (at 25deg.C)	Specification	0.075 Max.	0.075 Max.	dB
	Typical	0.064	0.064	
Input port V.S.W.R.	Specification	1.20 Max.	1.20 Max.	-
	Typical	1.04	1.04	
Directivity	Specification	20 Min.	20 Min.	dB
	Typical	32.36	34.26	
Frequency Sensitivity	Specification	0.30 Max.	0.20 Max.	dB
	Typical	0.13	0.02	

### 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             | : 80W 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

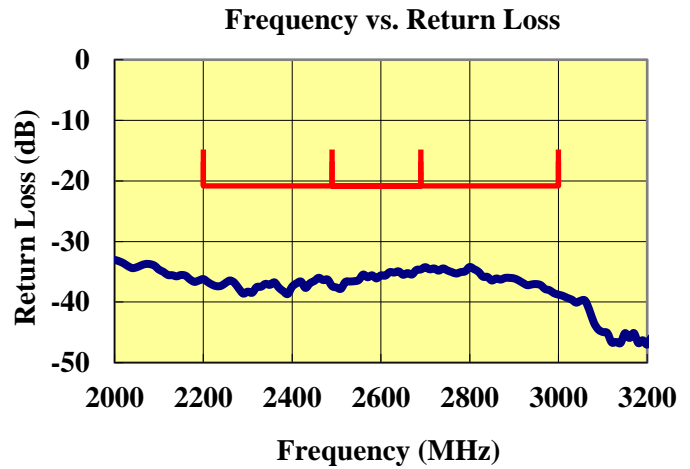
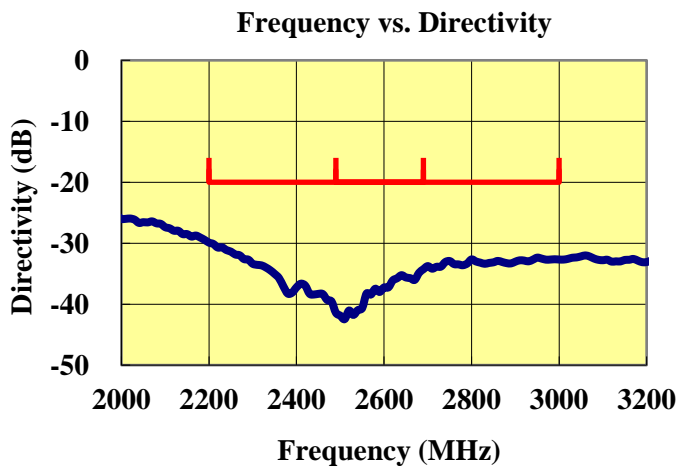
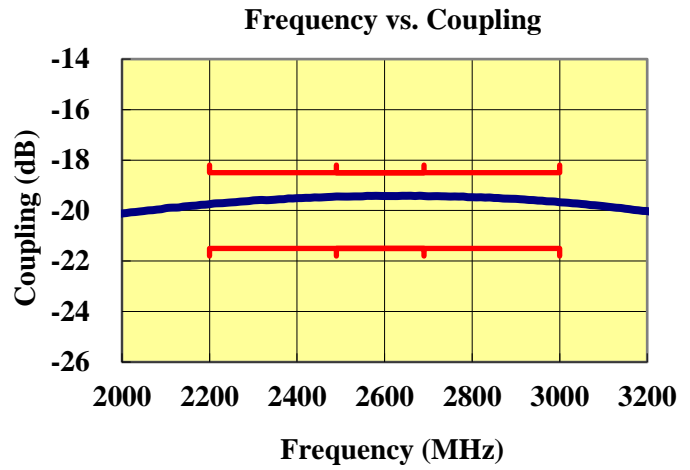
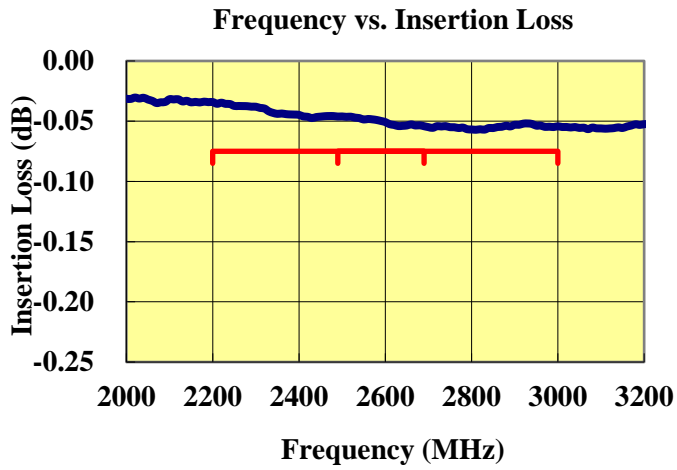
# Product Information

Control No. : ARP-4670700-E 2

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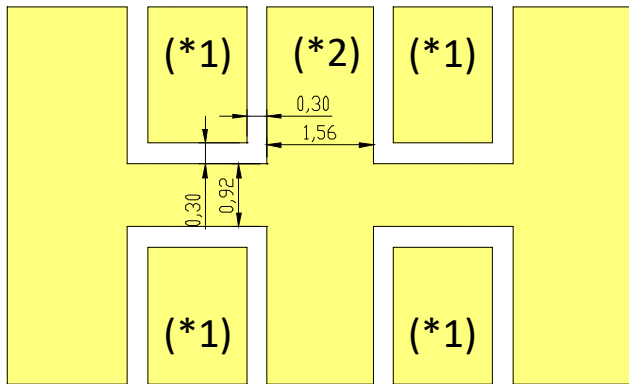
## 5. Representative characteristics

Measured data

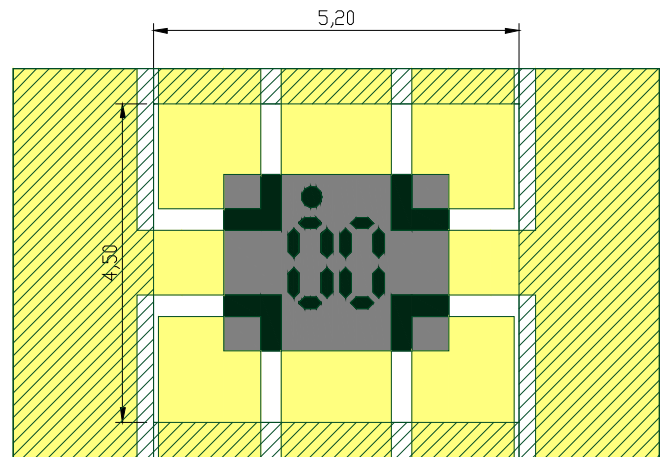


## 6.Recommended Land Pattern (Unit:mm)

### \*Land Pattern



### \*Resist Pattern



\*1 50 ohm impedance Line

\*2 Ground Plane