

# Product Information

Control No. : ARP-4671600-G 1

Issued on March 25, 2020

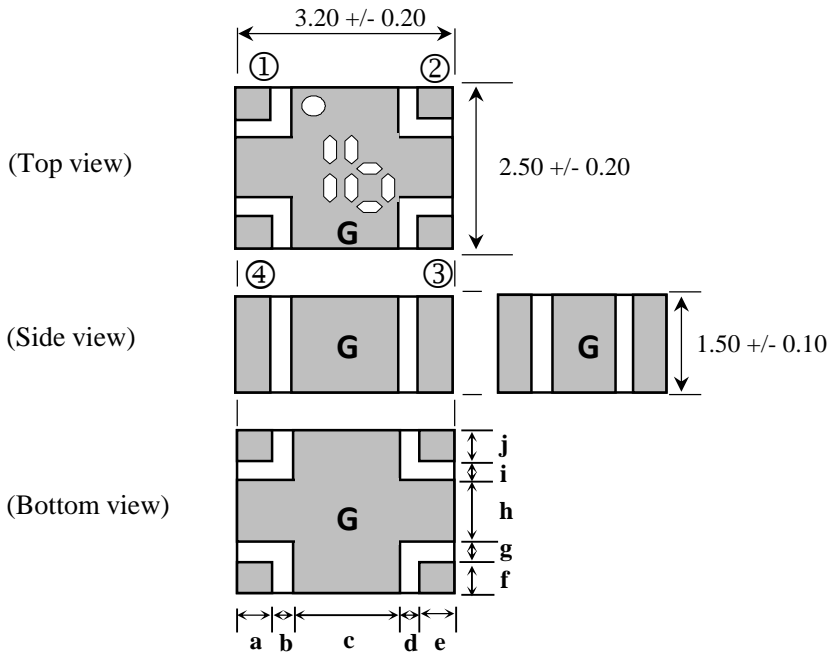
## Application : 20dB Directional Coupler 3200-4700MHz

### 1. Type No.

HMD6716D-20M3500

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	$0.52 \pm 0.10$
b	$0.30 \pm 0.10$
c	$1.56 \pm 0.10$
d	$0.30 \pm 0.10$
e	$0.52 \pm 0.10$
f	$0.49 \pm 0.10$
g	$0.30 \pm 0.10$
h	$0.92 \pm 0.10$
i	$0.30 \pm 0.10$
j	$0.49 \pm 0.10$

### 3. Electrical characteristics

Parameter		Band1	Band2	Unit
Pass band frequency	Specification	3200-4000	4000-4700	MHz
Nominal impedance	Specification	50	50	ohm
Mean Coupling	Specification	$20.0 \pm 1.5$	$20.0 \pm 3.5$	dB
	Typical	20.01	20.76	
Insertion Loss (at 25deg.C)	Specification	0.075 Max.	0.100 Max.	dB
	Typical	0.049	0.087	
Input port V.S.W.R.	Specification	1.20 Max.	1.43 Max.	-
	Typical	1.10	1.18	
Directivity	Specification	20 Min.	15 Min.	dB
	Typical	28.32	20.99	
Frequency Sensitivity	Specification	0.20 Max.	1.50 Max.	dB
	Typical	0.13	0.63	

### 4. Note

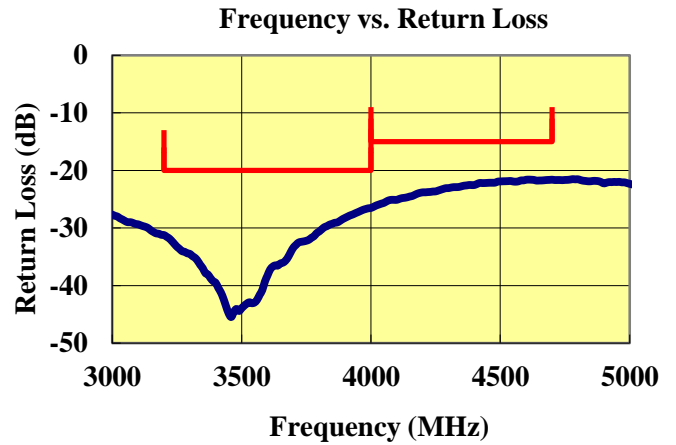
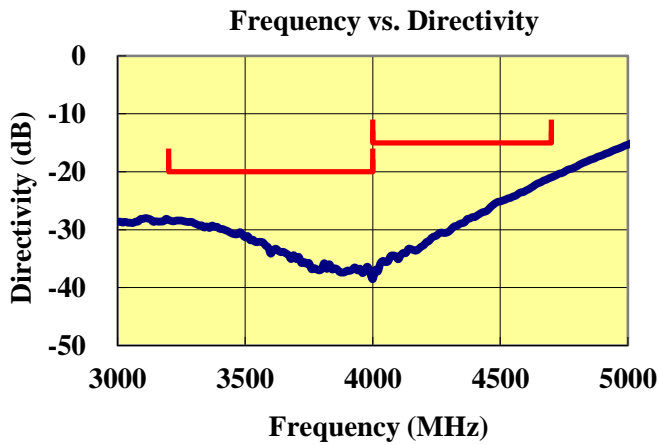
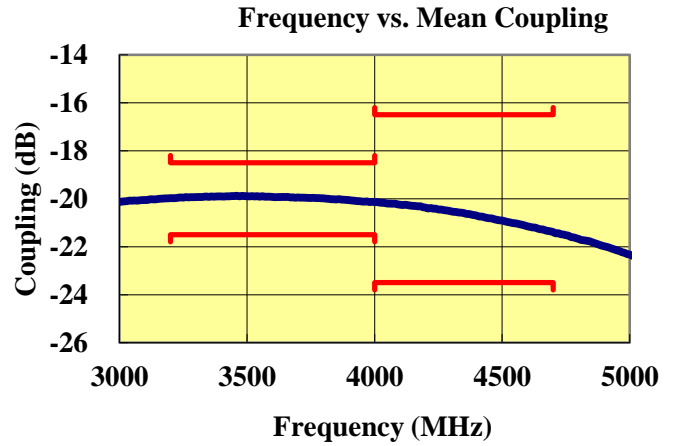
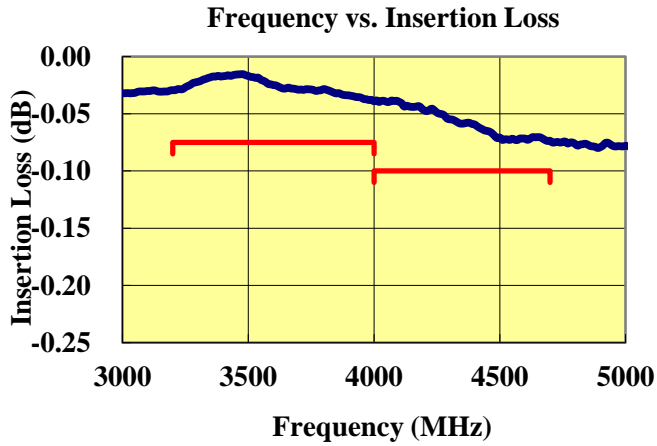
- |                                 |  |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C                      |
| 4.2 Storage Temperature Range   | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power             | : 80W Avg/CW                             |
| 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

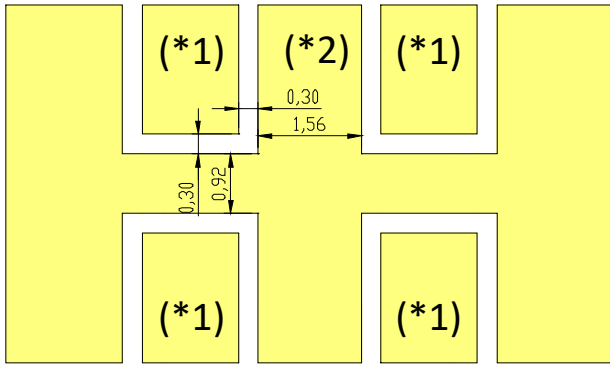
## 5.Representative characteristics

Measured data

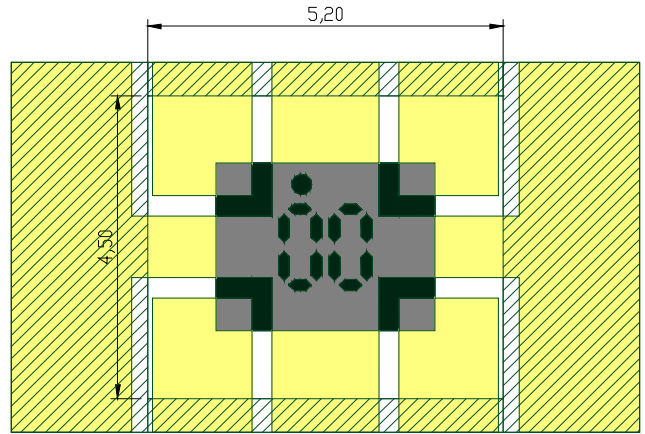


## 6.Recommended Land Pattern (Unit:mm)

### \*Land Pattern



### \*Resist Pattern



\*1 50 ohm impedance Line

\*2 Ground Plane