

# Tentative Specification

(Under development)

Control No. : ARP-4671300-D 1

Issued on July 13, 2020

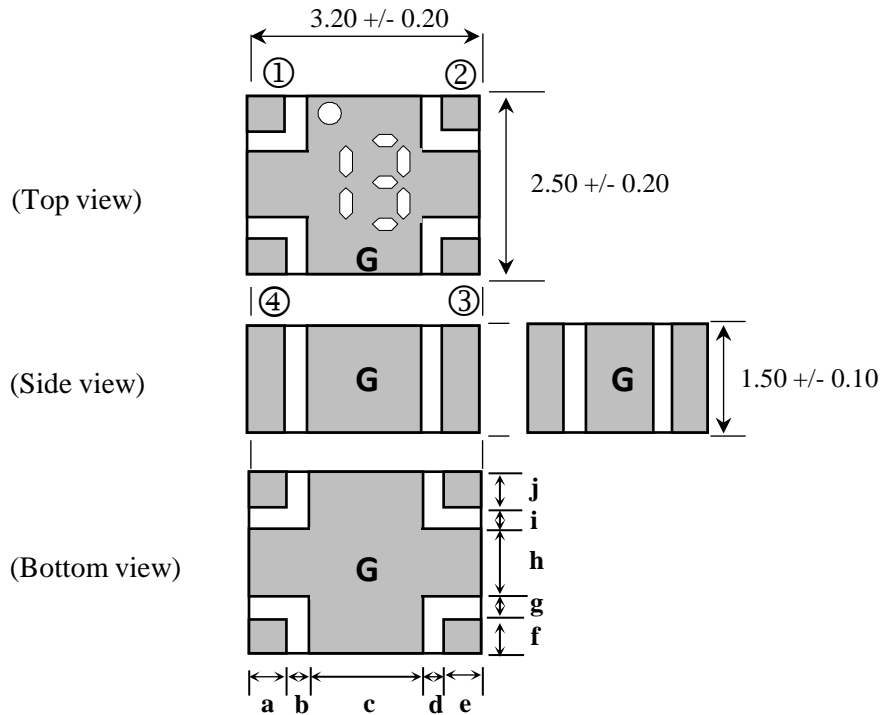
## Application : 30dB Directional Coupler for 4000-5500MHz

### 1. Type No.

HMD6713D-30M4500

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	Proposal	4000-5500	4000-5000	MHz
Nominal impedance	Proposal	50	50	ohm
Mean Coupling	Proposal	30.0 +/- 1.5	30.0 +/- 1.5	dB
	Typical	30.04	29.92	
Insertion Loss (at 25deg.C)	Proposal	0.135 Max.	0.100 Max.	dB
	Typical	0.077	0.075	
Input port V.S.W.R.	Proposal	1.29 Max.	1.22 Max.	-
	Typical	1.12	1.12	
Directivity	Proposal	12 Min.	15 Min.	dB
	Typical	15.63	19.69	
Frequency Sensitivity	Proposal	0.60 Max.	0.30 Max.	dB
	Typical	0.17	0.06	

### 4. Note

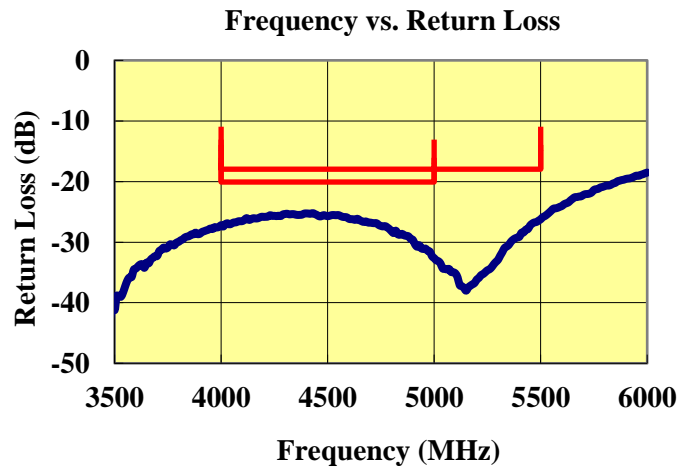
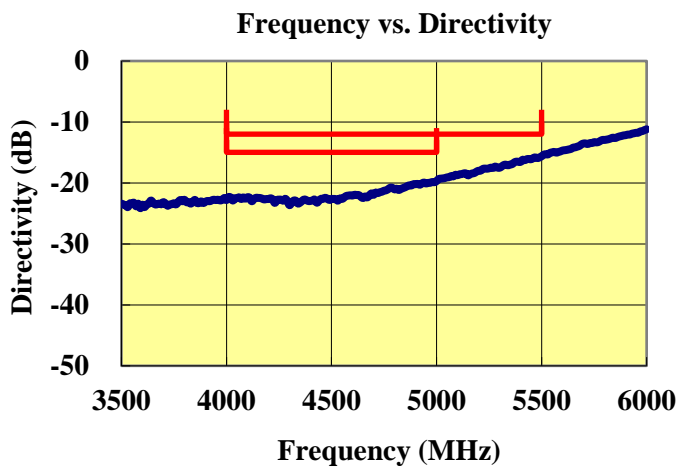
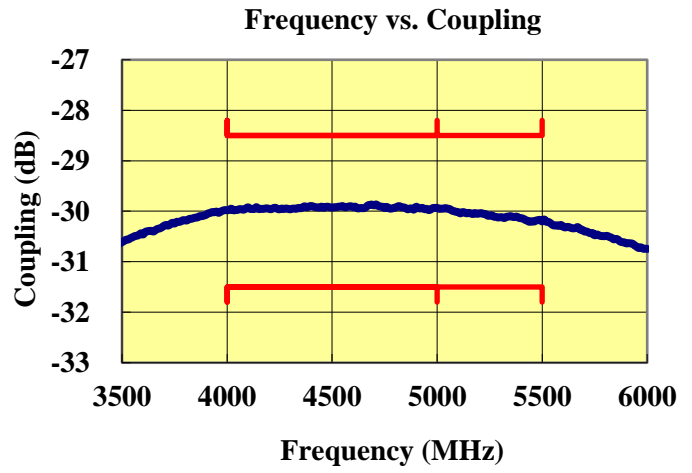
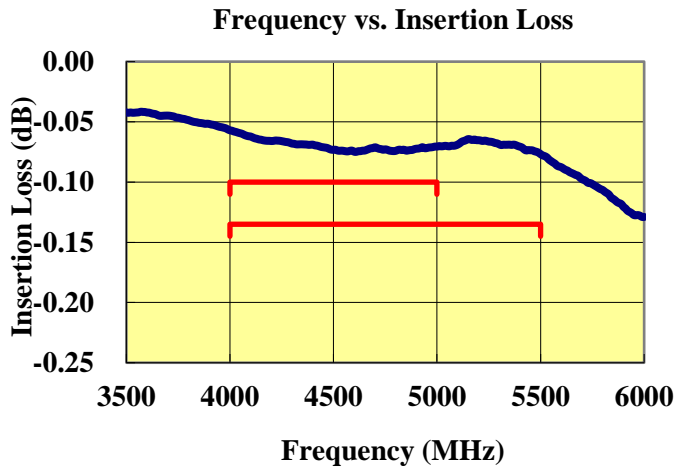
- |                                 |  |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C                      |
| 4.2 Storage Temperature Range   | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power             | : 80W Avg/CW                             |
| 4.4 Standard Reel Quantity      | : 2,000 pcs (per reel, per bag)          |

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

SOSHIN ELECTRIC CO., LTD

5.Representative characteristics

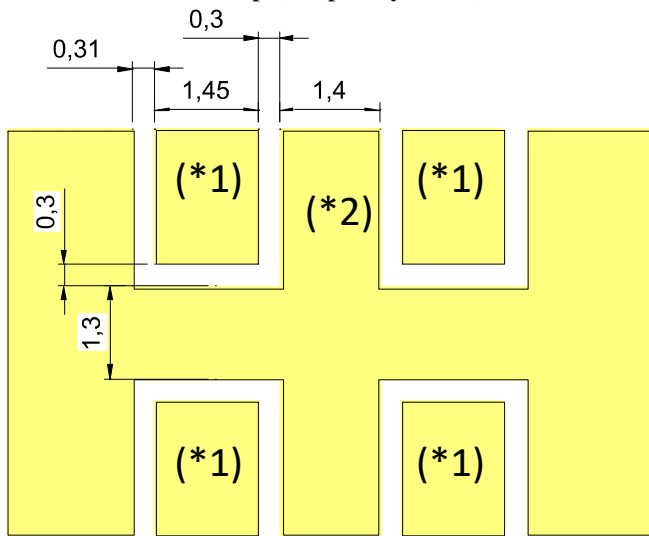
Measured data



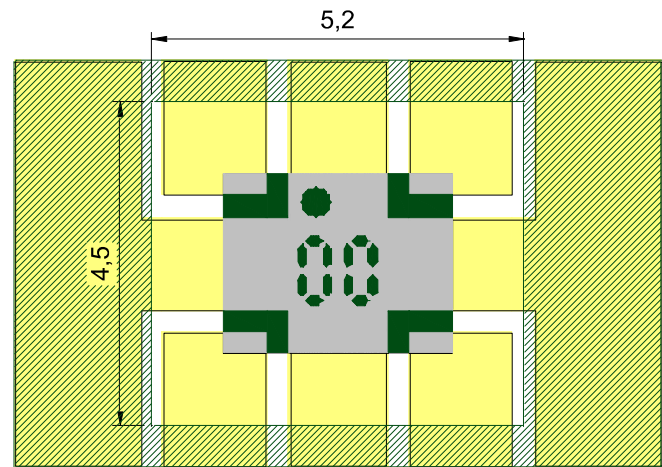
6.Recommended Land Pattern (Unit:mm)

**\*Land Pattern**

H17033-Temp (temporary name)



**\*Resist Pattern**



\*1 50 ohm impedance Line

\*2 Ground Plane