

Product Information

Control No. : ARP-4171500-J 1

Issued on July 13, 2020

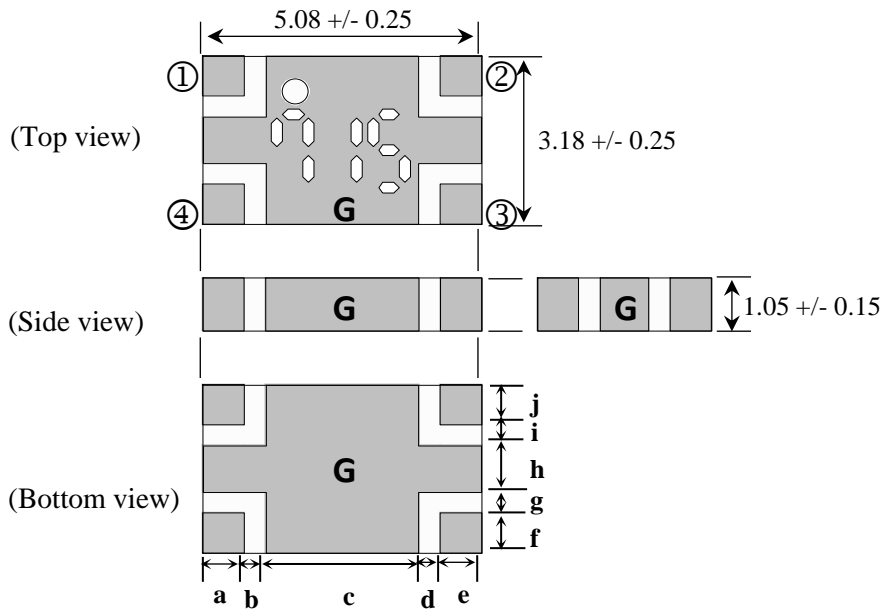
Application : 30dB Directional Coupler for 2300-3800MHz

1. Type No.

HMD1715A-30M3000

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	0.76 +/- 0.20
b	0.38 +/- 0.20
c	2.80 +/- 0.20
d	0.38 +/- 0.20
e	0.76 +/- 0.20
f	0.77 +/- 0.20
g	0.38 +/- 0.20
h	0.89 +/- 0.20
i	0.38 +/- 0.20
j	0.77 +/- 0.20

3. Electrical characteristics

Parameter		Band1	Band2	Band3	Unit
Pass band frequency	Specification	2300-3800	2300-2700	3300-3800	MHz
Nominal impedance	Specification	50	50	50	ohm
Mean Coupling	Specification	30.0 +/- 1.5	30.0 +/- 1.5	30.0 +/- 1.5	dB
	Typical	30.04	30.20	30.05	
Insertion Loss (at 25deg.C)	Specification	0.075 Max.	0.050 Max.	0.075 Max.	dB
	Typical	0.040	0.021	0.040	
Input port V.S.W.R.	Specification	1.22 Max.	1.15 Max.	1.22 Max.	-
	Typical	1.05	1.05	1.04	
Coupled port V.S.W.R.	Specification	1.22 Max.	1.15 Max.	1.22 Max.	-
	Typical	1.11	1.08	1.11	
Directivity	Specification	20 Min.	20 Min.	20 Min.	dB
	Typical	25.85	25.85	30.20	
Group Delay Terminal 1-2	Specification	0.043 +/- 0.020	0.043 +/- 0.020	0.043 +/- 0.020	nsec
	Typical	0.047-0.051	0.047-0.049	0.047-0.049	
Group Delay Terminal 1-4	Specification	0.075 +/- 0.020	0.075 +/- 0.020	0.075 +/- 0.020	nsec
	Typical	0.079-0.089	0.079-0.083	0.083-0.089	

4. Note

- | | |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +125 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 100W Avg/CW at 105 deg.C |
| 4.4 Standard Reel Quantity | : 1,000 pcs (per reel, per bag) |

Approved by	Confirmed by	Raised by
Y. Imai	T. Hasewaga	M. Aiba

SOSHIN ELECTRIC CO., LTD

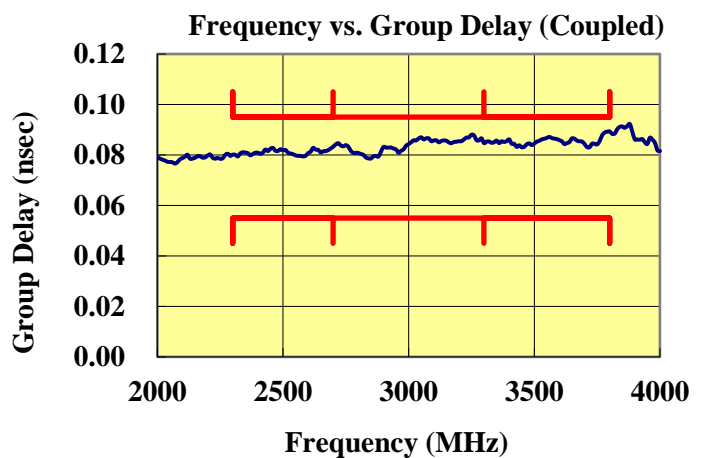
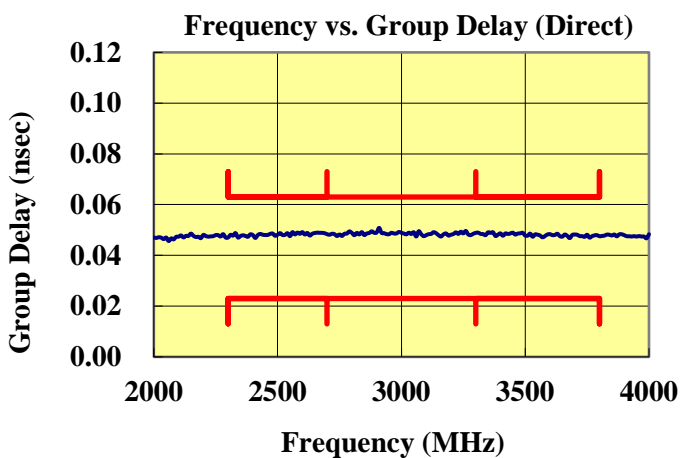
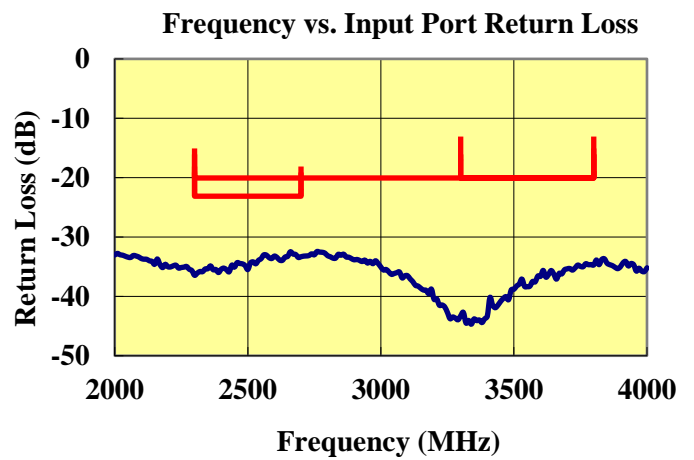
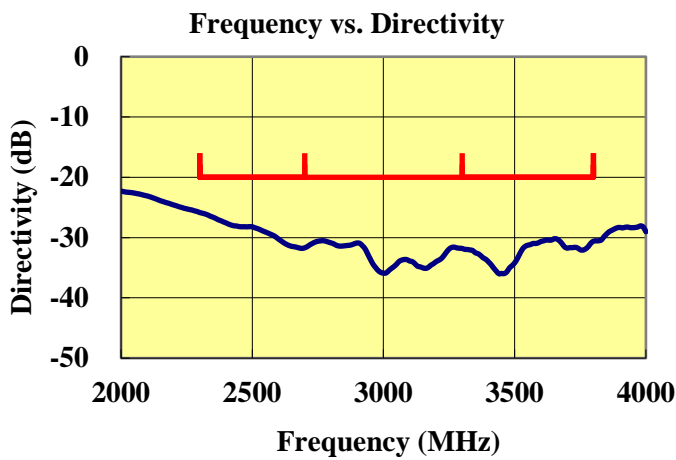
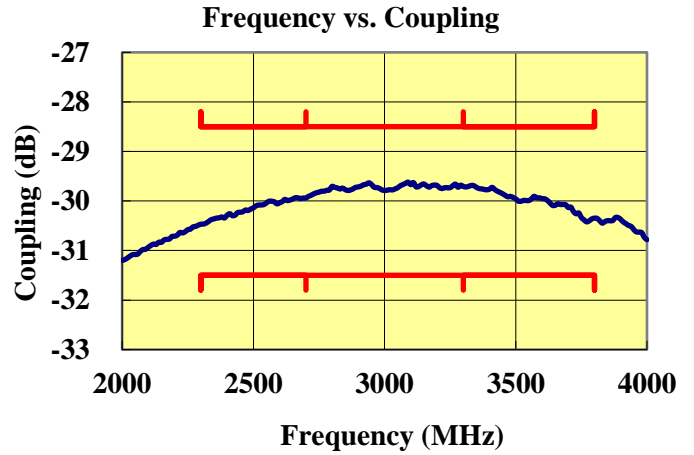
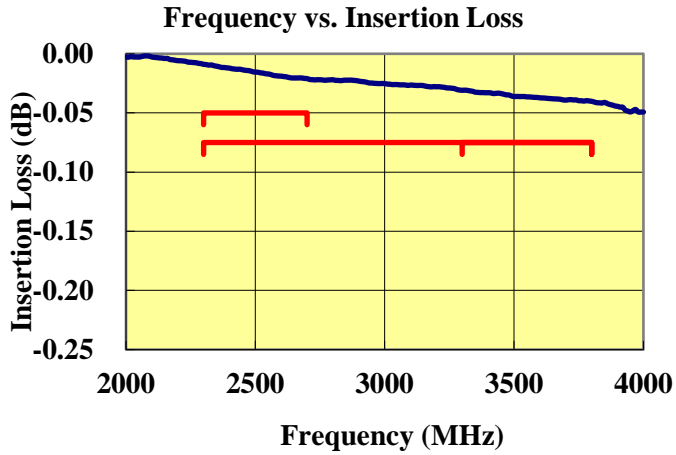
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5.Representative characteristics

Measured data



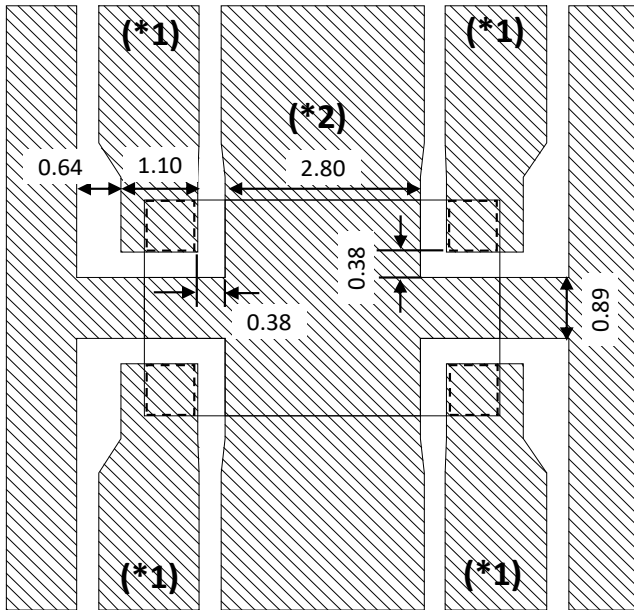
Product Information

Control No. : ARP-4171500-J3

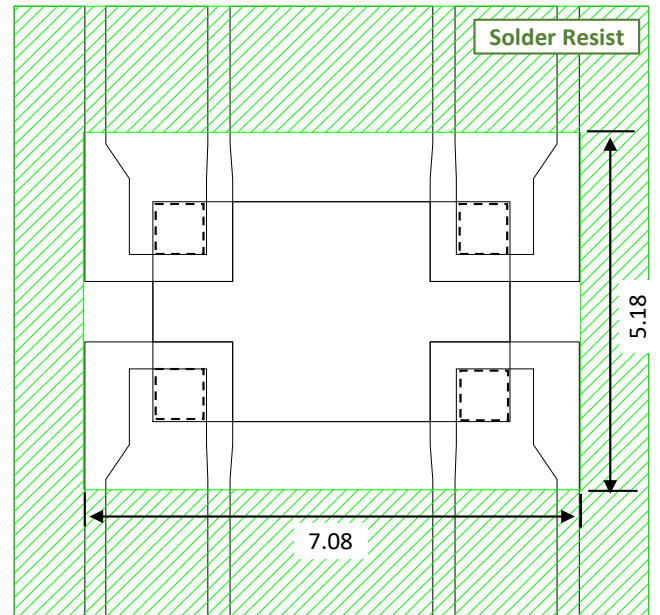
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6.Recommended Land Pattern (Unit:mm)

*Land Pattern



*Resist Pattern



*1 50 ohm impedance Line

*2 Ground Plane