

Product Information

Control No. : ARP-4271100-J 1

Issued on July 10, 2020

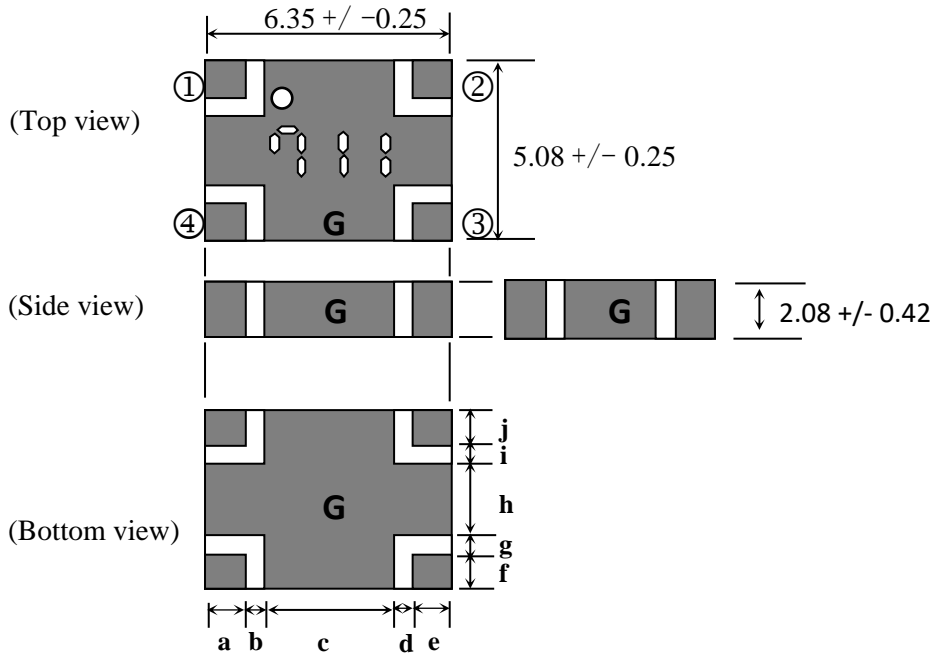
Application : 30dB Directional Coupler for 1400-2700MHz

1. Type No.

HMD2711A-30M2000

RoHS Compliant Part

2. Dimension (Unit : mm)



Terminal	
①	IN
②	OUT
③	Isolation
④	Coupling
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	Band3	Band4	Unit
Frequency Range	Specification	1400-2700	1805-1880	1930-1990	2110-2170	MHz
Nominal impedance	Specification	50	50	50	50	ohm
Mean Coupling	Specification	30.4 +/- 1.5	30.0 +/- 1.5	30.0 +/- 1.5	30.2 +/- 1.5	dB
	Typical	30.84	29.74	29.74	29.91	
Insertion Loss	Specification	max 0.10	max 0.075	max 0.075	max 0.10	dB
	Typical	0.071	0.061	0.071	0.062	
VSWR	Specification	max 1: 1.22	max 1: 1.12	max 1: 1.12	max 1: 1.12	
	Typical	1.06	1.06	1.05	1.04	
Return Loss	Specification	min 20.08	min 24.94	min 24.94	min 24.94	dB
	Typical	30.63	30.99	31.75	34.06	
Directivity	Specification	min 20	min 20	min 20	min 20	dB
	Typical	25.50	25.53	25.66	26.98	
Frequency Sensitivity	Specification	max +/- 2.00	max +/- 0.05	max +/- 0.05	max +/- 0.30	dB
	Typical	1.13	0.01	0.02	0.04	
Group Delay (Terminal 1 ↔2)	Specification	0.08 +/- 0.04	0.08 +/- 0.04	0.08 +/- 0.04	0.08 +/- 0.04	nsec
	Typical	0.065~0.074	0.066~0.071	0.067~0.068	0.068~0.071	
Group Delay (Terminal 1 ↔4)	Specification	0.11 +/- 0.04	0.11 +/- 0.04	0.11 +/- 0.04	0.11 +/- 0.04	nsec
	Typical	0.12~0.132	0.125~0.128	0.125~0.127	0.123~0.125	

4. Note

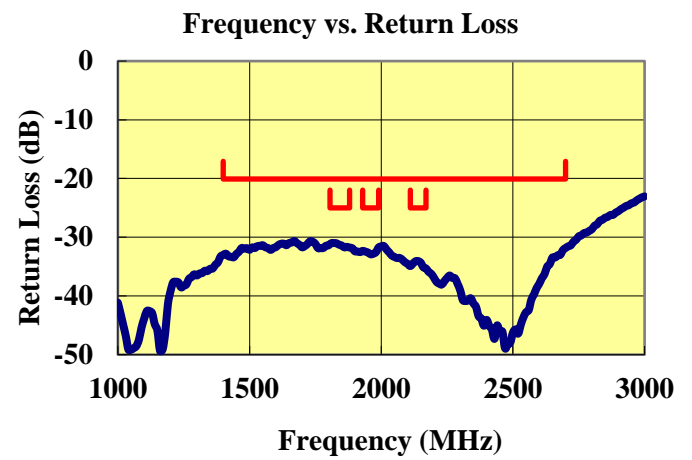
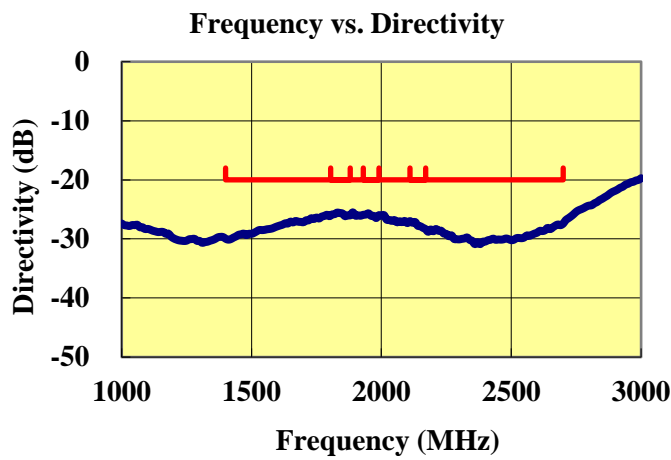
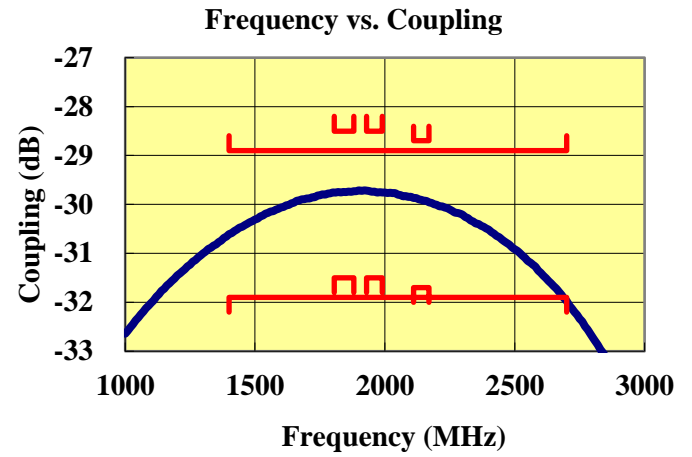
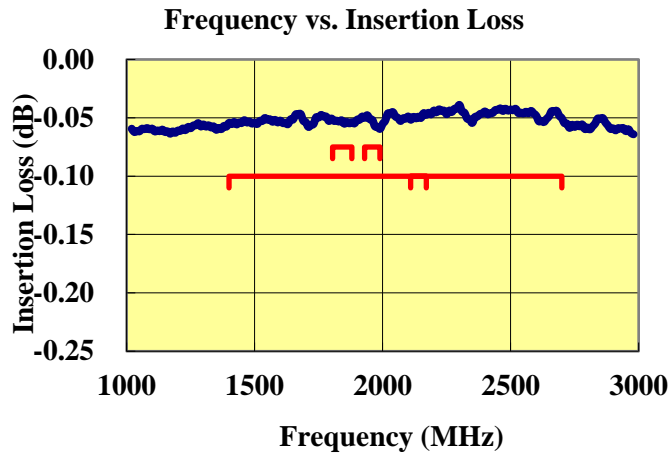
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|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 deg.C |
| 4.2 Storage Temperature Range | : -20 to +35 deg.C (In a Taping Package) |
| 4.3 Max Input Power | : 200 W Avg/CW |
| 4.4 Standard Reel Quantity | : 1,000 pcs (per reel, per bag) |

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

SOSHIN ELECTRIC CO., LTD

Measured Data

5.Representative characteristics

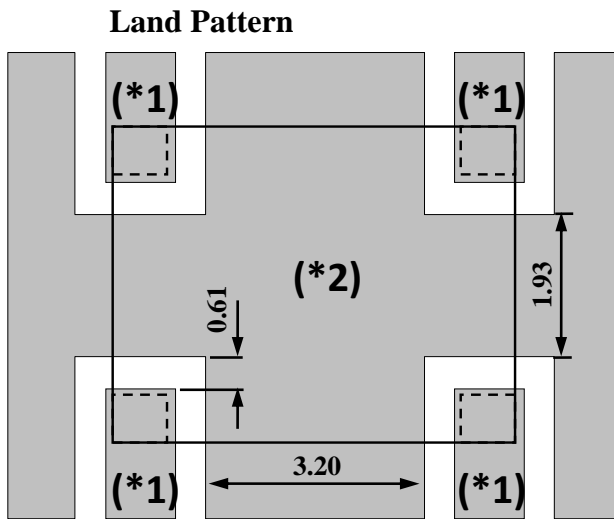


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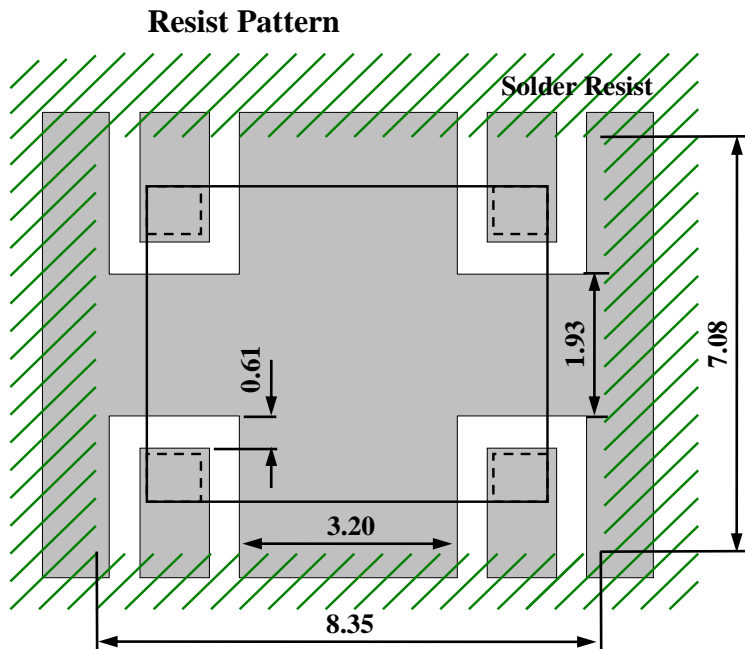
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6.Recommended Land Pattern (Unit:mm)



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



7.Power Derating Curve

