

Product Information

Control No. : ARP-488100-H 1

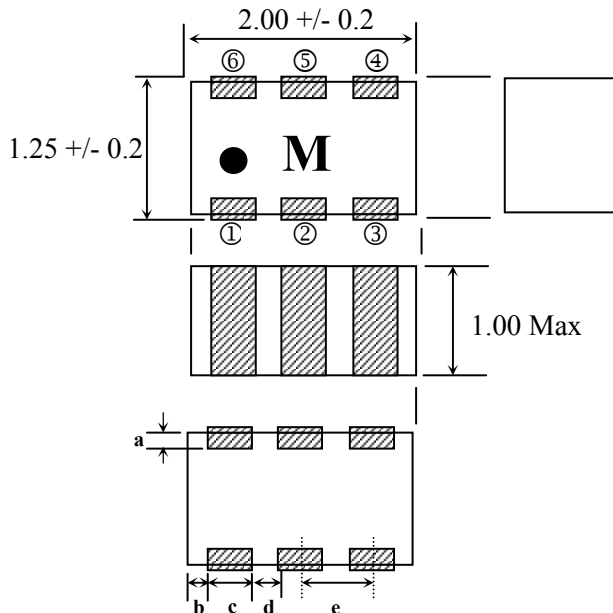
Issued on September 15, 2010

Application : Diplexer for Wireless LAN (2.4GHz / 5GHz)

1. Type No.
HMD881J - T

RoHS Directive Parts

2. Dimension (Unit : mm)



Terminal	
①	2.4G-Input
②	GND
③	5G-Input
④	GND
⑤	Common
⑥	GND

Terminal Dimensions	
a	0.15 Typ.
b	0.20 +/- 0.15
c	0.30 +/- 0.10
d	0.35 +/- 0.10
e	0.65 +/- 0.10

3. Electrical characteristics

(3)-1 Common Port(⑤) - High Frequency Port(③)

Parameter	Specification	Typical	Unit	Remark	
fc (Center frequency)	5425	-	MHz		
Pass band frequency	4900-5950	-	MHz		
Nominal impedance	50	-	ohm		
Insertion Loss at 25degC.	0.8 Max.	0.50	dB		
Insertion Loss at -40 to +85degC.	1.1 Max.	-	dB		
Common port VSWR in BW	2.0 Max.	1.25	-		
Ripple	0.5 Max.	0.05	dB		
Attenuation (MHz)	at 1800 - 2500	25 Min	34.10	dB	
	at 9800 - 11900	25 Min	42.20	dB	Reference
	at 14700 - 17850	15 Min	27.20	dB	Reference

(3)-2 Common Port(⑤) - Low Frequency Port(①)

Parameter	Specification	Typical	Unit	Remark
fc (Center frequency)	2450	-	MHz	
Pass band frequency	2400-2500	-	MHz	
Nominal impedance	50	-	ohm	
Insertion Loss at 25degC.	0.5 Max.	0.30	dB	
Insertion Loss at -40 to +85degC.	0.7 Max.	-	dB	
Common port VSWR in BW	2.0 Max.	1.37	-	
Ripple	0.5 Max.	0.03	dB	
Attenuation (MHz)	at 4800 - 6000	20 Min	23.50	dB
	at 7200 - 7500	20 Min	25.10	dB

4. Note

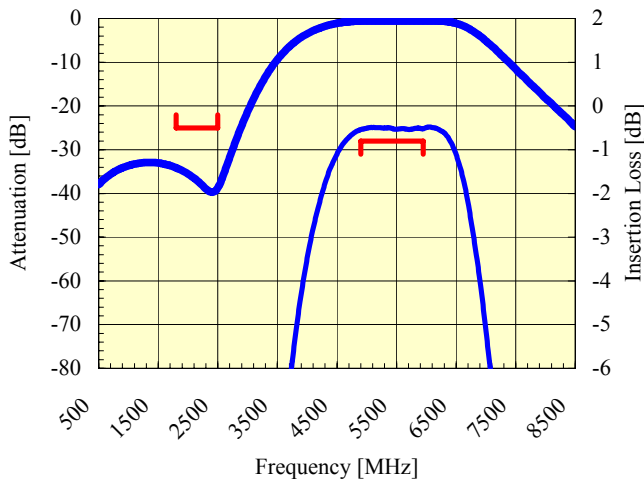
- 4.1 Operating Temperature Range : -40 to +85 deg.C
 4.2 Storage Temperature Range before soldering in taping package : -20 to +35 deg.C
 4.3 Minimum Ordering Quantity : 2,000 pcs (per reel, per bag)

Approved by	Confirmed by	Raised by
Y.Mizutani	H.Makino	K.Misaizu

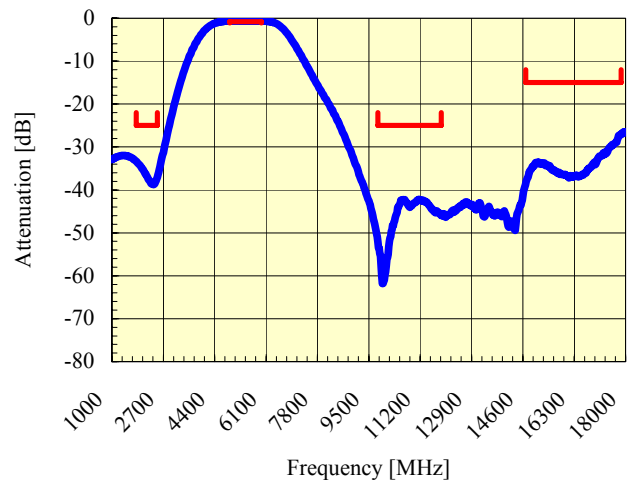
SOSHIN ELECTRIC CO., LTD

5.Representative characteristics

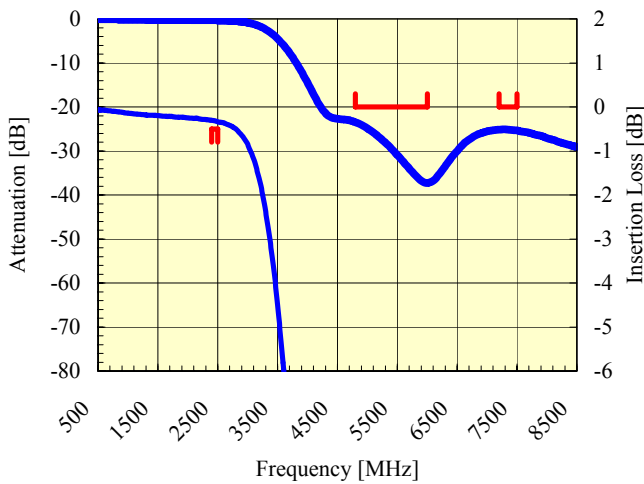
Pass Band Frequency Response (5GHz Port)



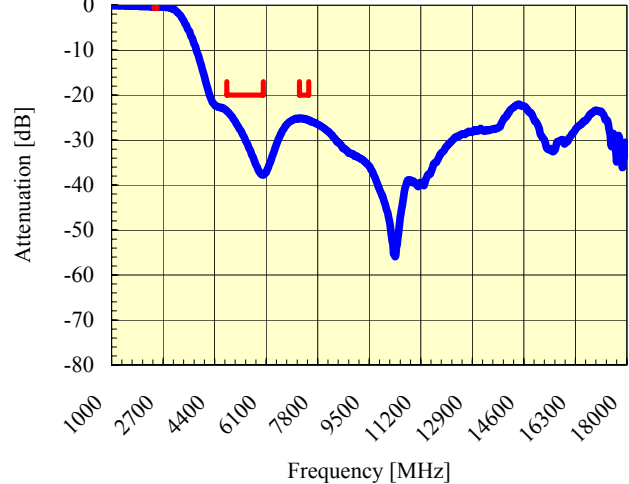
Broad Band Frequency Response (5GHz Port)



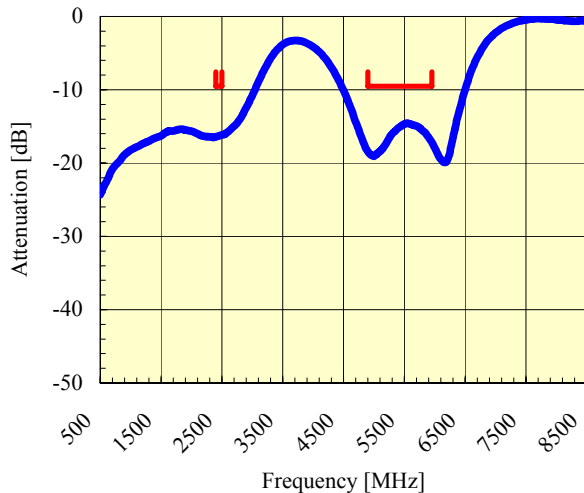
Pass Band Frequency Response (2.4GHz Port)



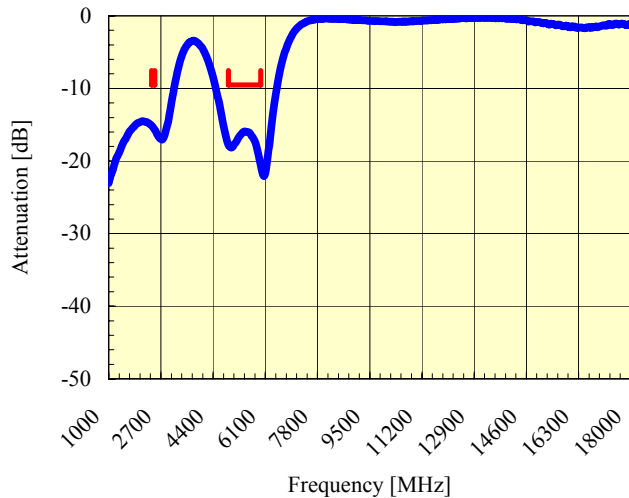
Broad Band Frequency Response (2.4GHz Port)



Pass Band Frequency Response (Common Port)

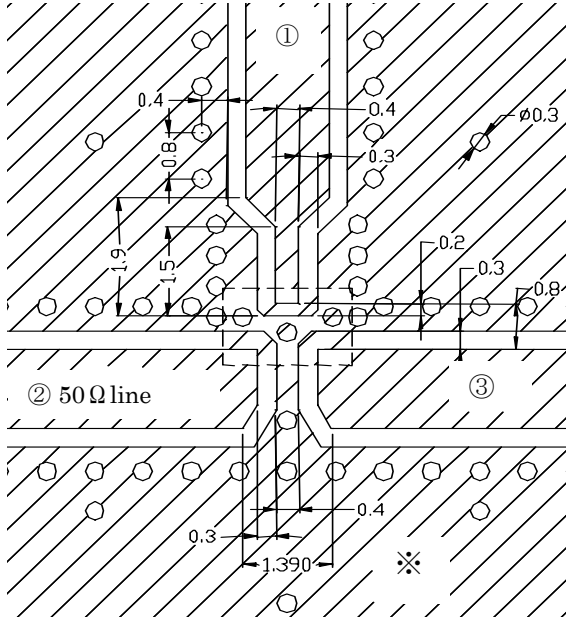


Broad Band Frequency Response (Common Port)

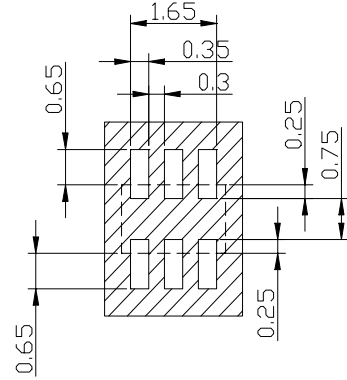


6.Recommendation Land Pattern (Unit:mm)

Land Pattern



Resist Pattern



Terminal	
①	Input
②	Output1
③	Output2
※	GND

(Unit : mm)