

MPD1026W4

4 ways Power Splitter/Combiners

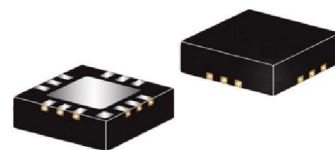


Applications

1. GNSS Antenna
2. Radar
3. GSM, CDMA and LTE

Features

1. Very wide bandwidth, 1150 to 2600 MHz
2. Excellent isolation, 20 dB typ.
3. Excellent phase unbalance, 2 deg. Typ.



Description

The MPD1026W4 is a low cost, high performance four ways power splitters in an easy to use surface mount package. It is ideal for multi-frequency signal combined, indoor antenna distribution system and multi-frequency Small Cell & Pico. MPD1026W4 is Based on IPD technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specifications

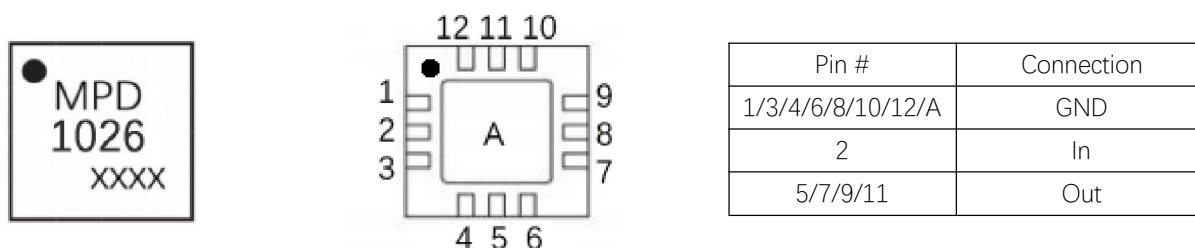
Table 1. MPD1026W4 Electrical Specifications

Item	Min.	Type.	Max.	Unit
Frequency Range	1150		2600	MHz
Insertion Loss (above 6 dB)		1.5	2.0	dB
Isolation	18	20		dB
Amplitude Unbalance	-1	0.35	+1	
Phase Unbalance			5	Deg.
VSWR (Port S)			1.50	:1
VSWR (Port 6,2)			1.35	:1
Operating Temp.	-55		+105	°C
Power Input (sum port)			1	Watt

All the above data are based on specified demo board and tested in 25° environment.

Port Configurations

Figure 1. MPD1026W4 Port Configurations (Top View)



All Use For RF & Microwave

MPD1026W4

4 ways Power Splitter/Combiners

MECSINE兆讯

Typical Performance

Figure 2. MPD1026W4 Insertion Loss

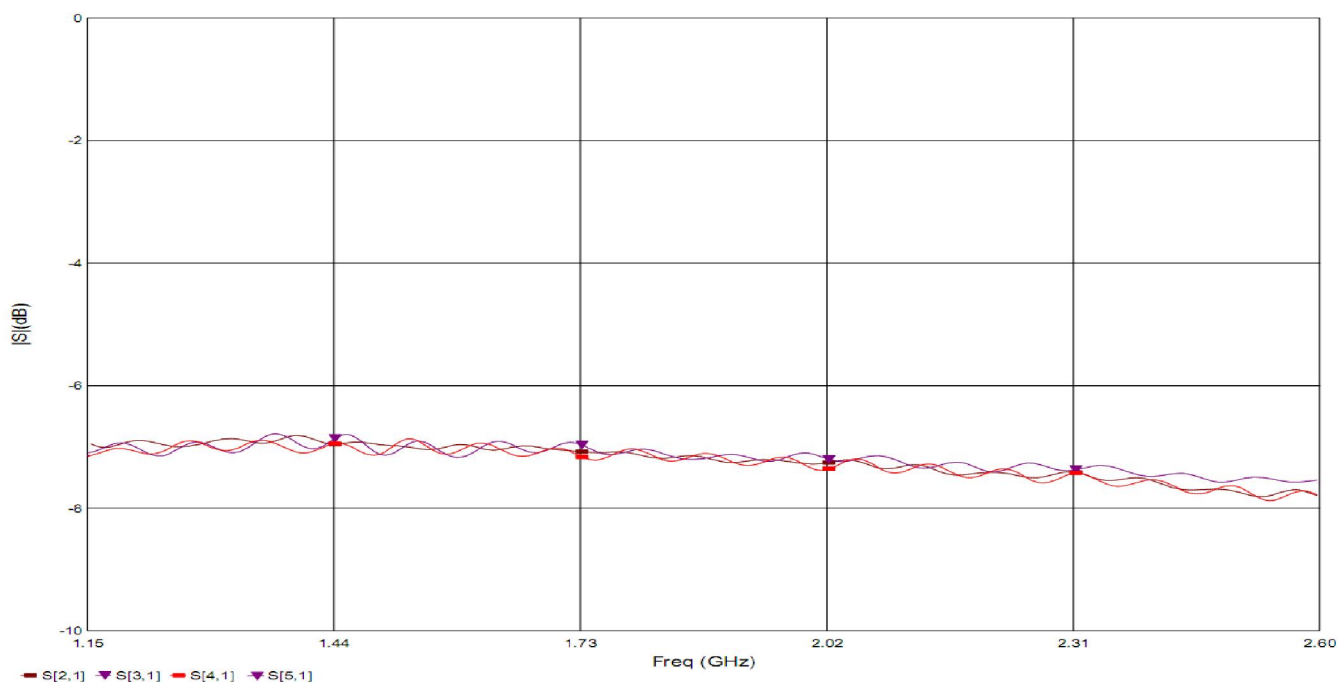
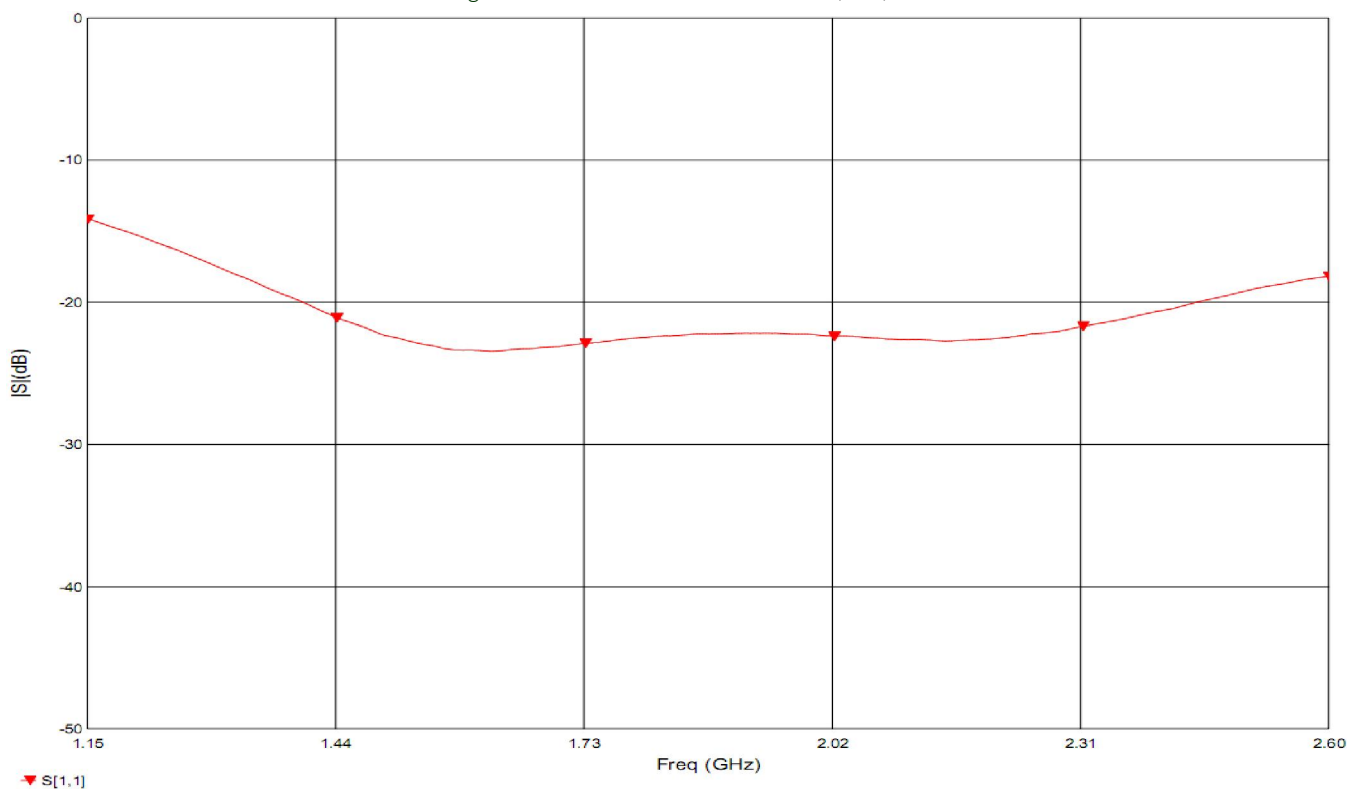


Figure 3. MPD1026W4 Return Loss (S₁₁)



All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contact us for future information

May 09, 2023

MPD1026W4

4 ways Power Splitter/Combiners

MECSINE兆訊

Figure 4. MPD1026W4 Return Loss (S22, S33, S44, S55)

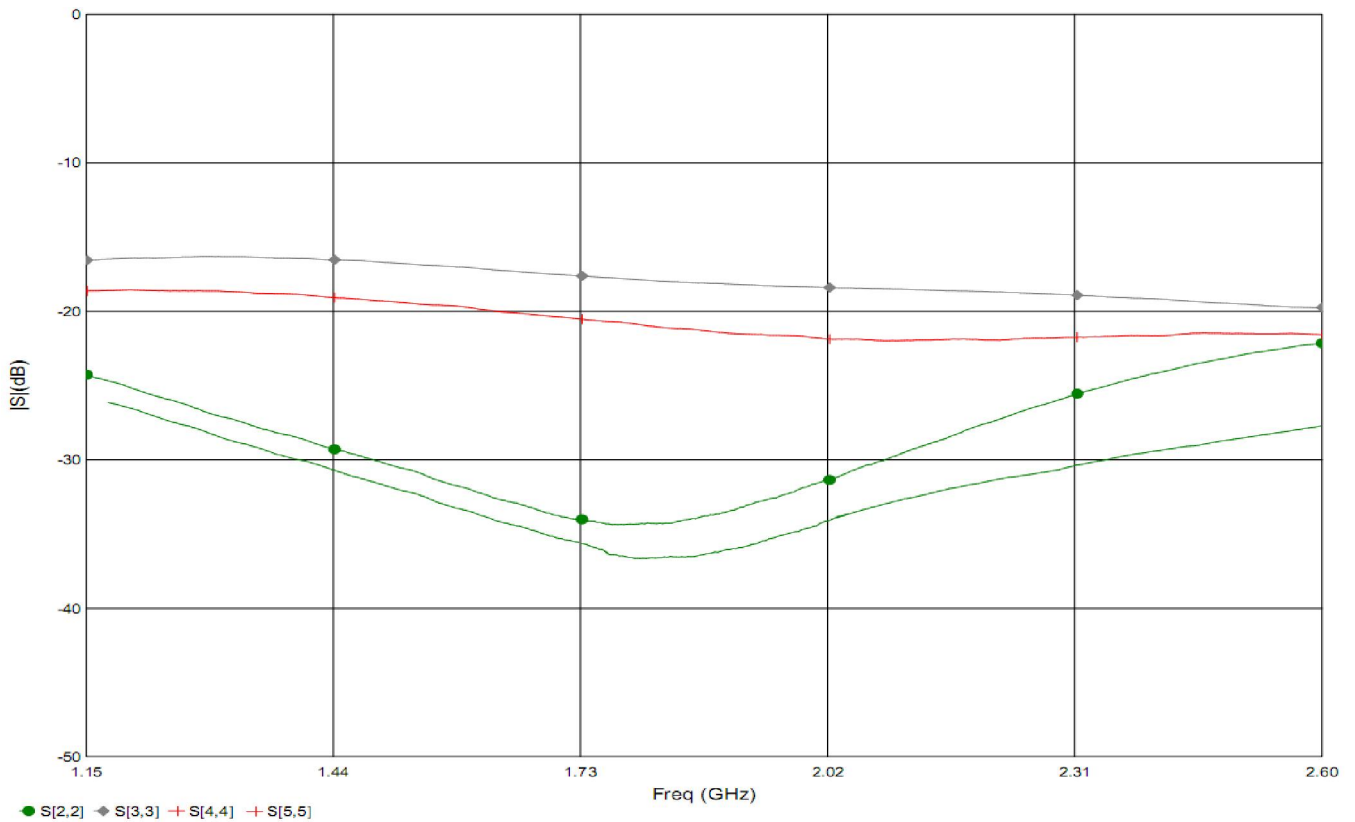
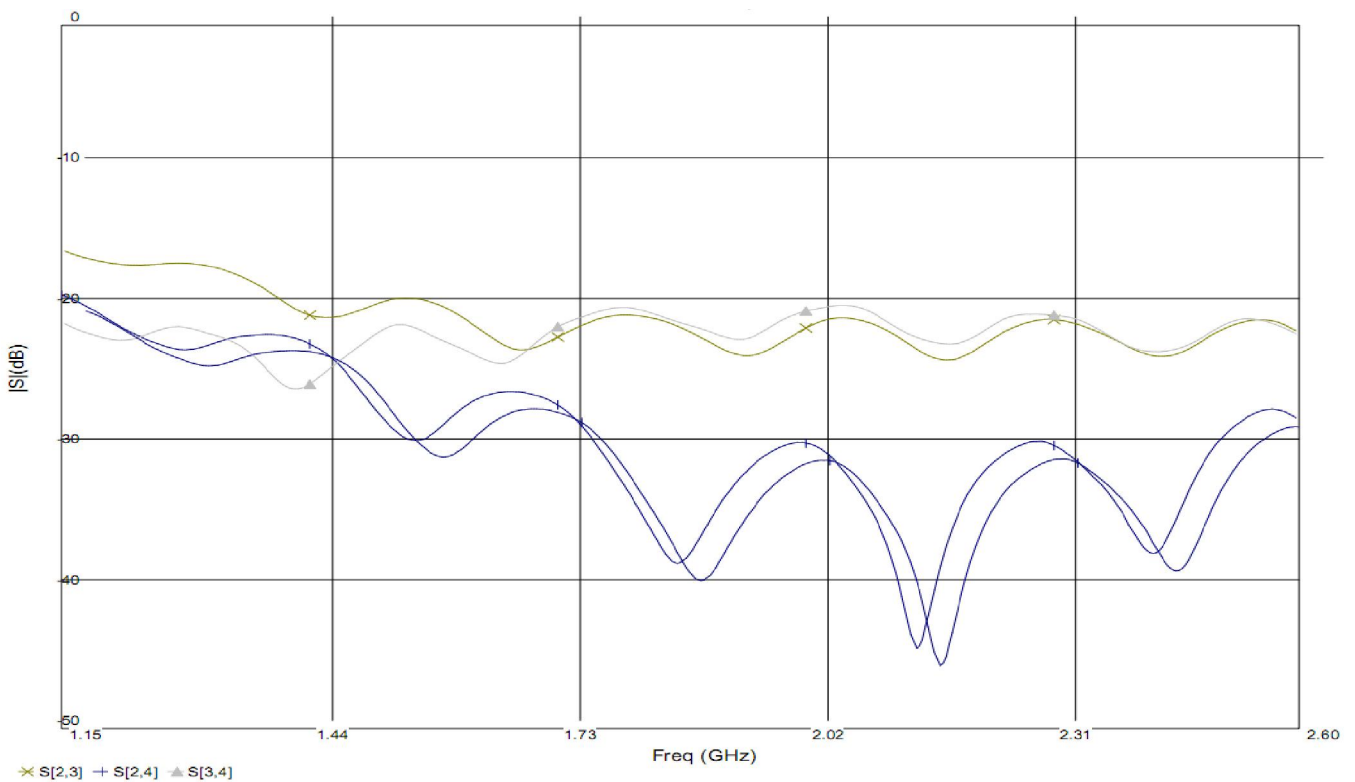


Figure 5. MPD1026W4 Isolation (S23, S24, S34)



All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contact us for future information

May 09, 2023

MPD1026W4

4 ways Power Splitter/Combiners



Outline Drawing

Figure 6. MPD1026W4 Outline Drawing

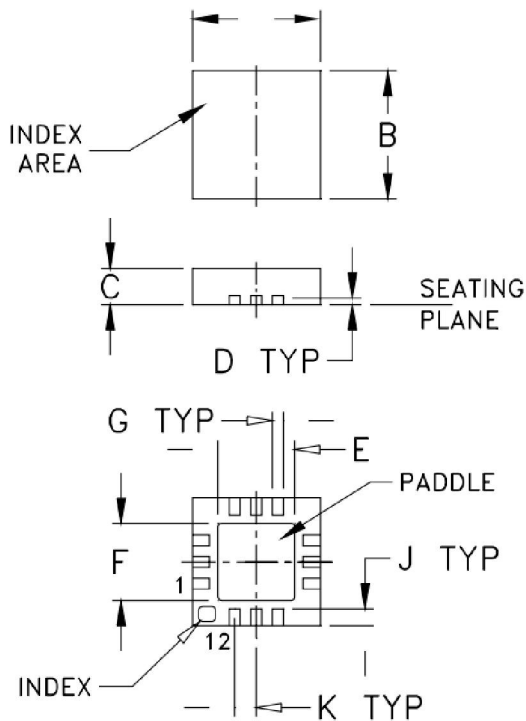
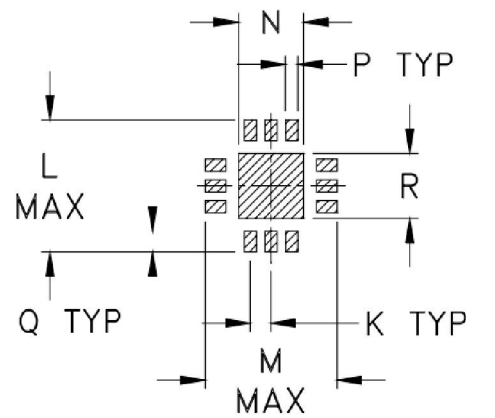


Figure 7. MPD1026W4 Recommended PCB Layout



Outline Dimensions (mm)

A	B	C	D	E	F	G	H	J
3.00	3.00	0.89	0.20	1.45	1.45	0.23	---	0.41
K	L	M	N	P	Q	R		wt
0.51	3.23	3.23	1.24	0.25	0.51	1.24		0.02

All Use For RF & Microwave

MPD1026W4

4 ways Power Splitter/Combiners

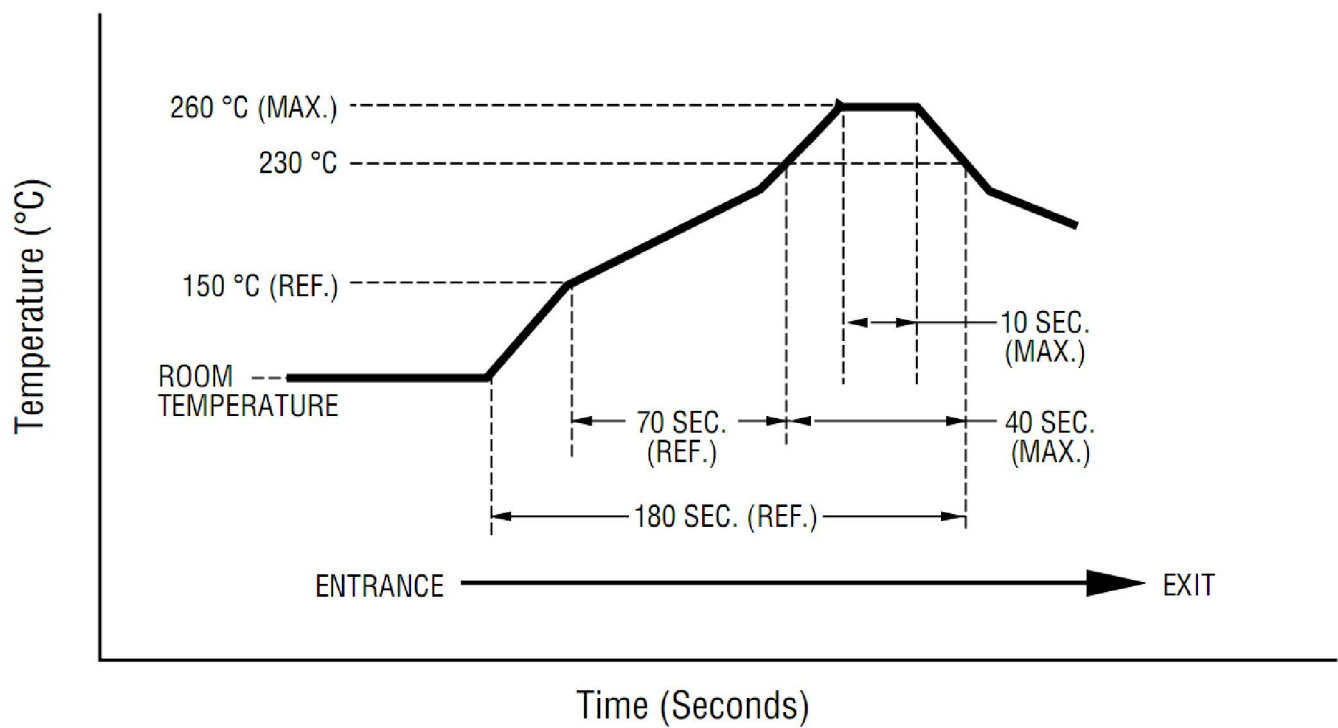


Table 2. MPD1026W4 Ordering Information

Device	Package	Reel	Shipping
MPD1026W4	3*3mm	7"	3000 Reel

Recommended Reflow Solder Profile

Figure 8. MPD1026W4 Recommended Reflow Solder Profile



MPD1026W4

4 ways Power Splitter/Combiners



Revision	Description	Date
Rev0	Preliminary	2023/10/28

All Use For RF & Microwave