

MG-EP2W

2 way Power Splitters/Combiners



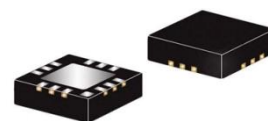
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Applications

1. GNSS Antenna
2. Multi-frequency signal combined
3. GSM, CDMA and LTE

Features

1. Low Insertion Loss 1.5dB typ based on IPD technology
2. Based on IPD technology
3. High isolation
4. Frequency wide Band
5. AEC-Q200 qualified



Description

The MG-EP2W is a low cost, high performance two 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. MG-EP2W is Based on IPD technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specifications

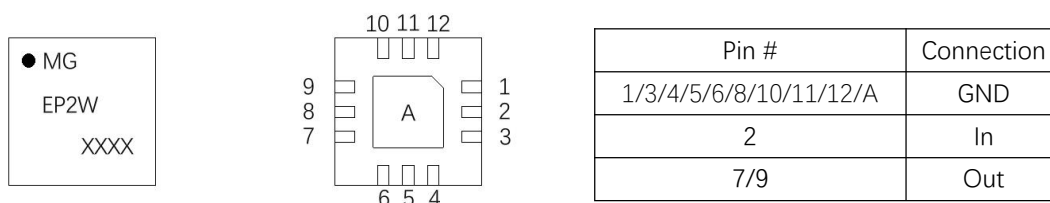
Table 1. MG-EP2W Electrical Specifications

Item	Min.	Type.	Max.	Unit
Frequency Range	700		6000	MHz
Isolation	10	20	40	dB
Insertion Loss		0.75	1.5	dB
Phase Unbalance	-5	3	+5	Deg.
Amplitude	-1	0.8	+1	dB
Return Loss	10	18		dB
Operating Temp.	-55		+105	°C
Power			2	W

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

Port Configurations

Figure 1. MG-EP2W Port Configurations (Bottom View)



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Typical Performance (25°C, 700-6000MHz)

Figure 2. MG-EP2W Return Loss(S11)



Figure 3. MG-EP2W Return Loss (S22)

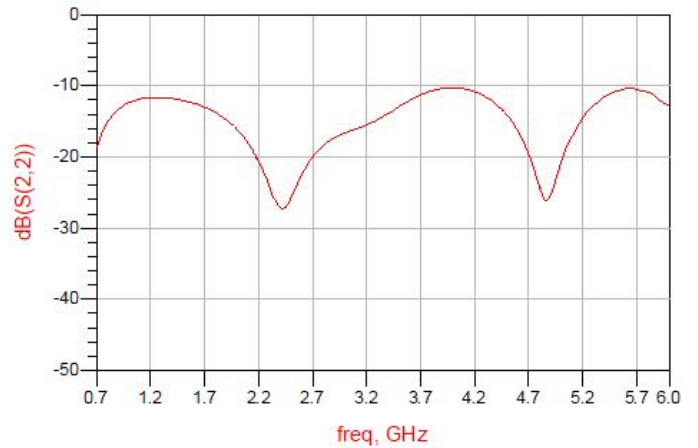


Figure 4. MG-EP2W Return Loss (S33)



Figure 5. MG-EP2W Insertion Loss (S21)

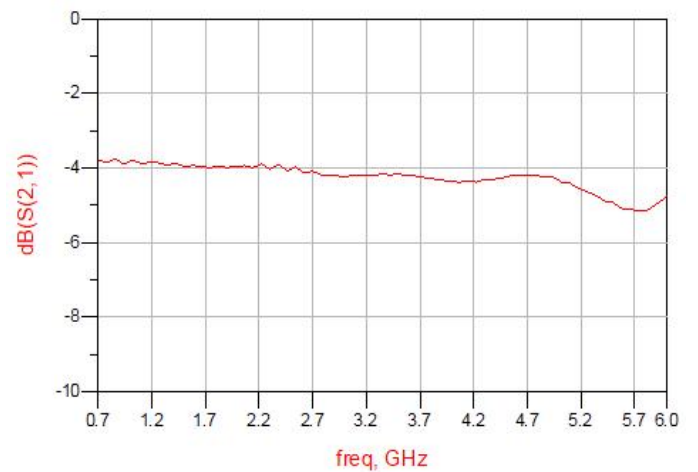


Figure 6. MG-EP2W Insertion Loss (S31)

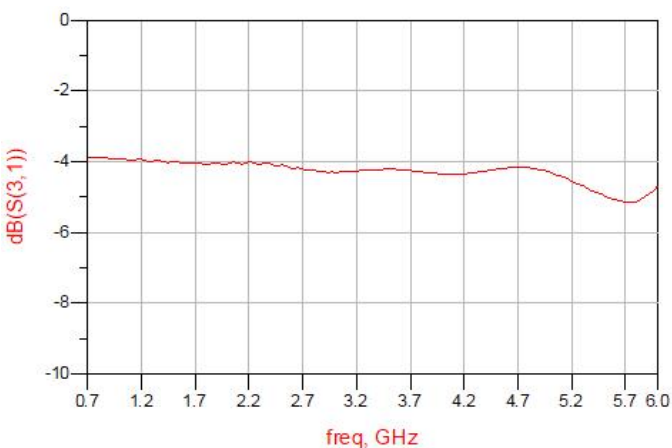
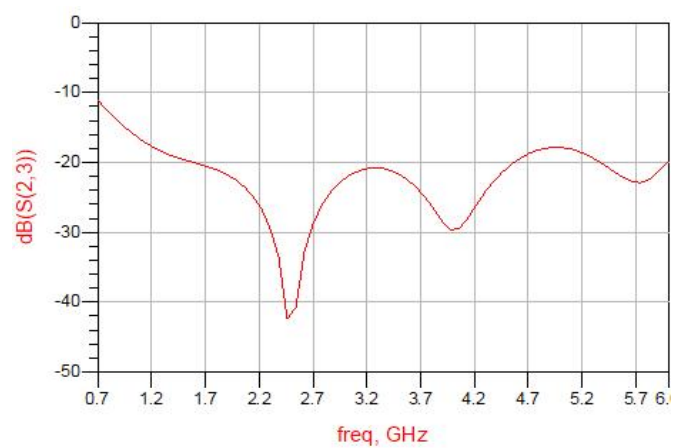


Figure 7. MG-EP2W Isolation



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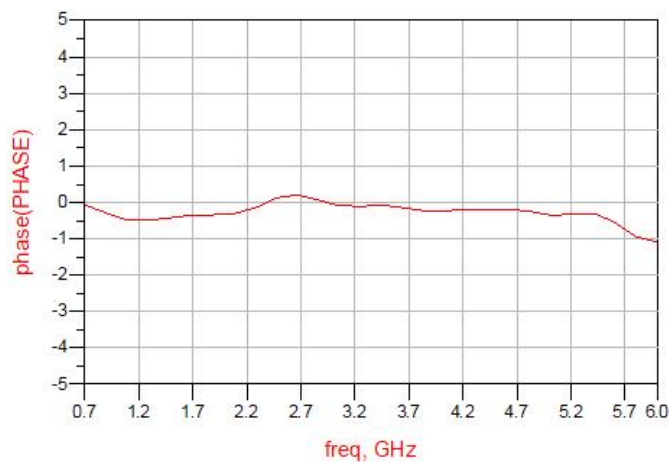
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Figure 8. MG-EP2W Phase



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Outline Drawing

Figure 9. MG-EP2W Outline Drawing

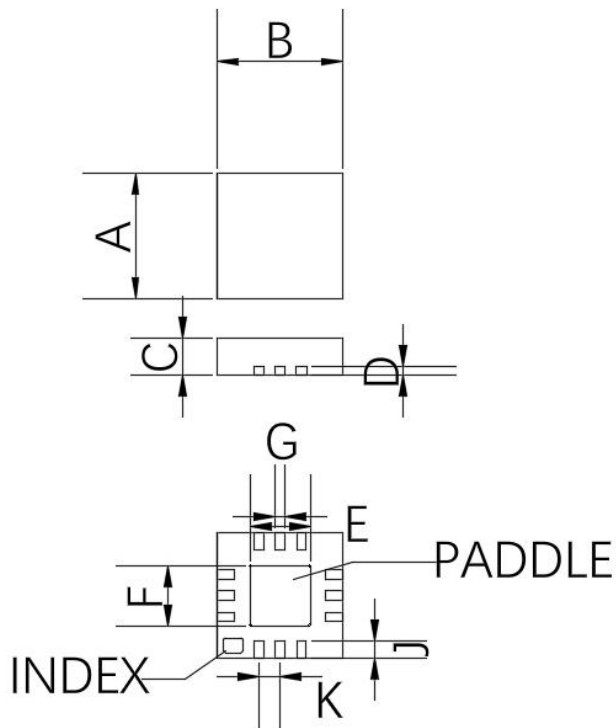
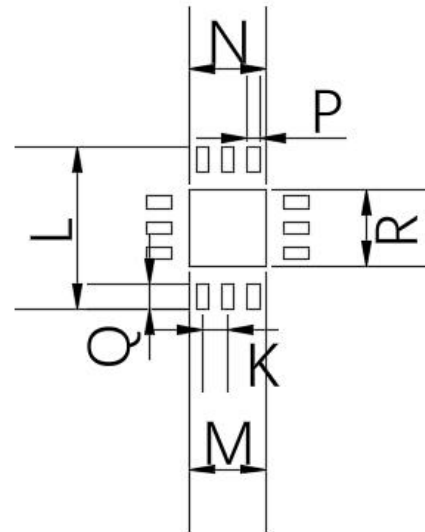


Figure 10. MG-EP2W Recommended PCB Layout



Outline Dimensions (mm)

A	B	C	D	E	F	G	H	J
3.00	3.00	0.85	0.20	1.45	1.45	0.23	...	0.41
K	L	M	N	P	Q	R		Wt
0.51	3.23	3.23	1.52	0.25	0.51	1.52		0.02

Table 2. MG-EP2W Ordering Information

Device	Package	Reel	Shipping
MG-EP2W	3*3mm	7"	3000/Reel

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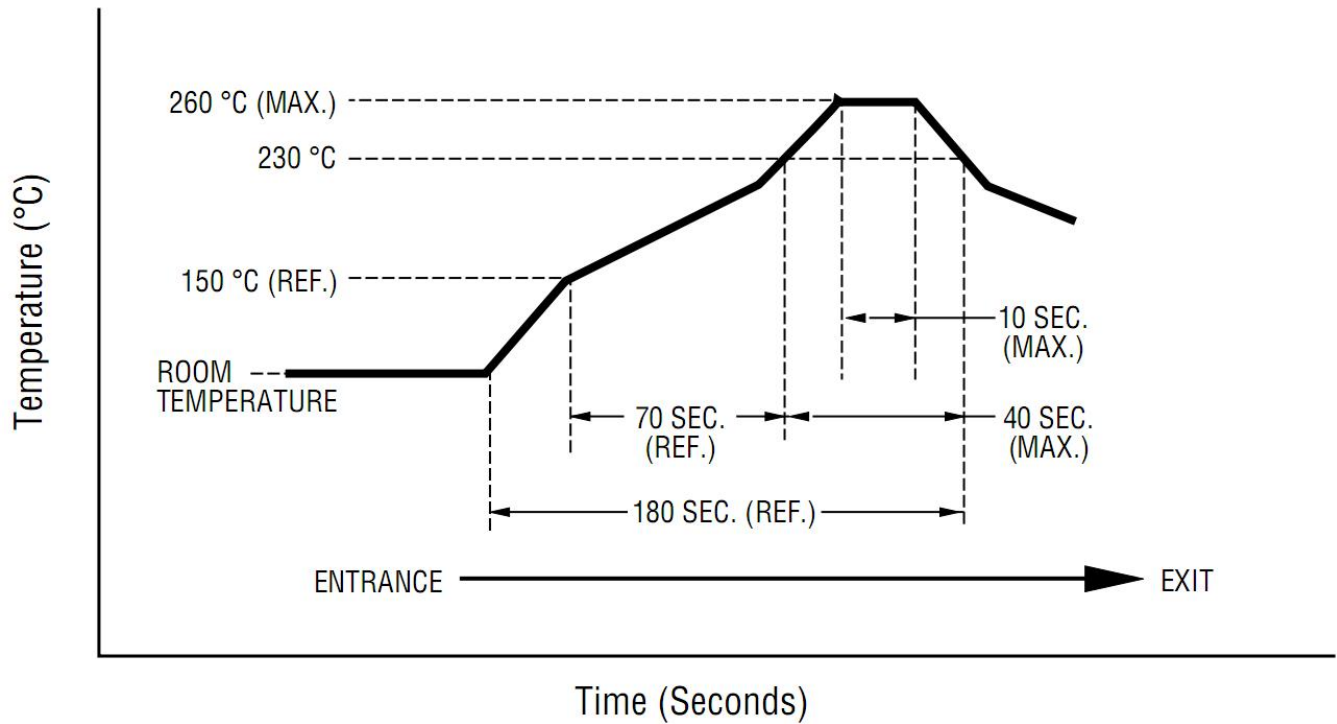
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Recommended Reflow Solder Profile

Figure 11. MG-EP2W Recommended Reflow Solder Profile



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Revision	Description	Date
Rev0	Preliminary	2026/08/19

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