

MG-EGP2S

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 1.2dB typ based on IPD technology
2. Based on IPD technology
3. High isolation
4. Frequency wide Band
5. AEC-Q200 qualified

Description

The MG-EGP2S 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-EGP2S is Based on IPD technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specifications

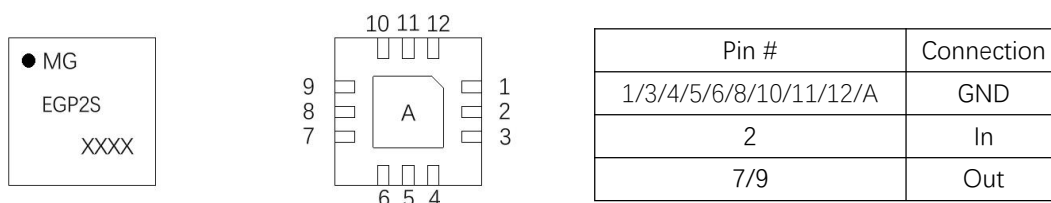
Table 1. MG-EGP2S Electrical Specifications

Item	Min.	Type.	Max.	Unit
Frequency Range	800		2100	MHz
Isolation	12		24	dB
Insertion Loss		0.75	1.2	dB
Phase Unbalance	-3	1	+3	Deg.
Amplitude	-0.5	0.35	+0.5	dB
Return Loss	11	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-EGP2S Port Configurations (Bottom View)



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Typical Performance (25°C, 800-2100MHz)

Figure 2. MG-EGP2S Return Loss(S11)

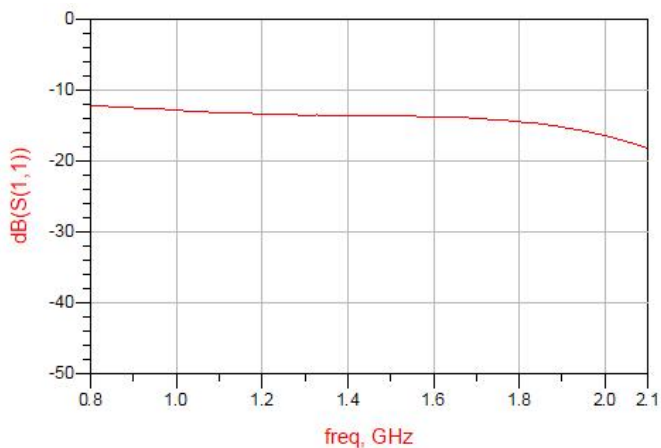


Figure 3. MG-EGP2S Return Loss (S22)



Figure 4. MG-EGP2S Return Loss (S33)

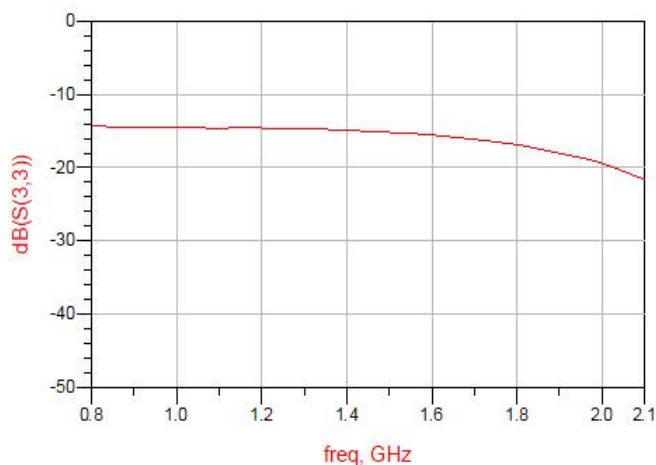


Figure 5. MG-EGP2S Insertion Loss (S21)

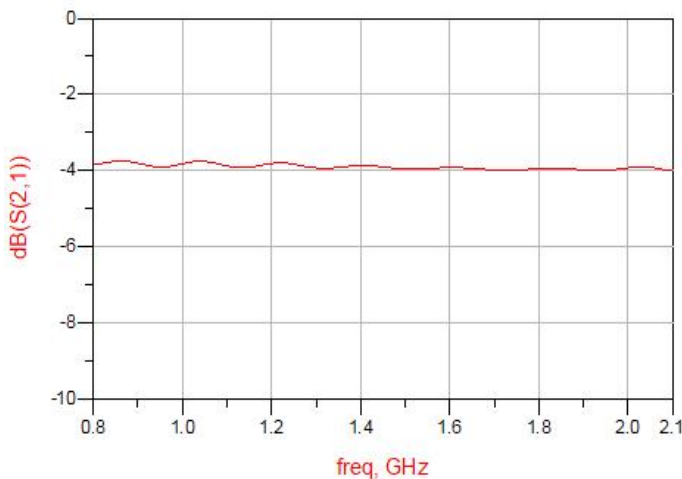


Figure 6. MG-EGP2S Insertion Loss (S31)

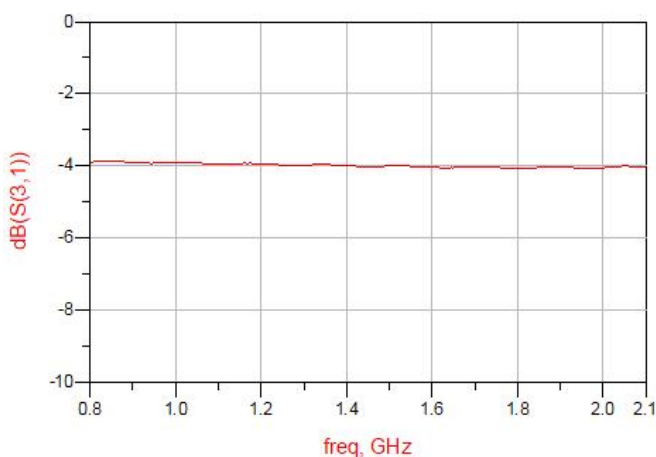
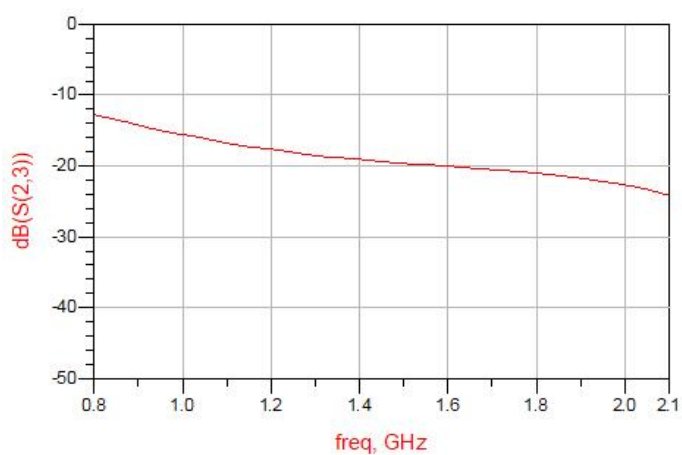


Figure 7. MG-EGP2S Isolation



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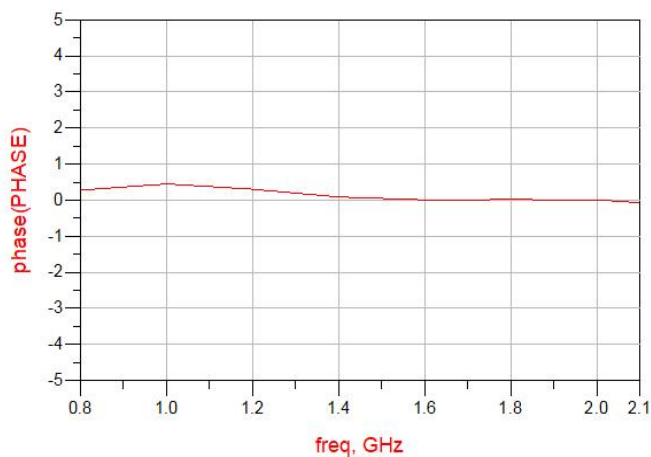
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Figure 8. MG-EGP2S Phase



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Outline Drawing

Figure 9. MG-EGP2S Outline Drawing

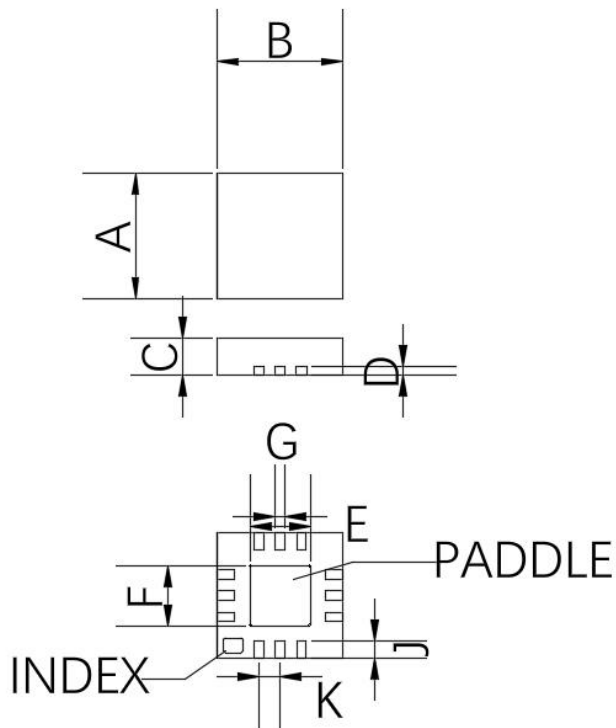
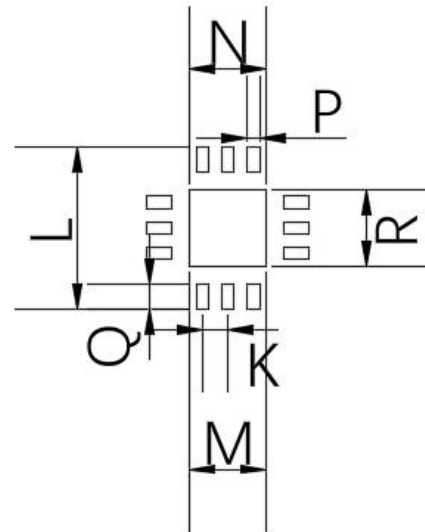


Figure 10. MG-EGP2S Recommended PCB Layout



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-EGP2S Ordering Information

Device	Package	Reel	Shipping
MG-EGP2S	3*3mm	7"	3000/Reel

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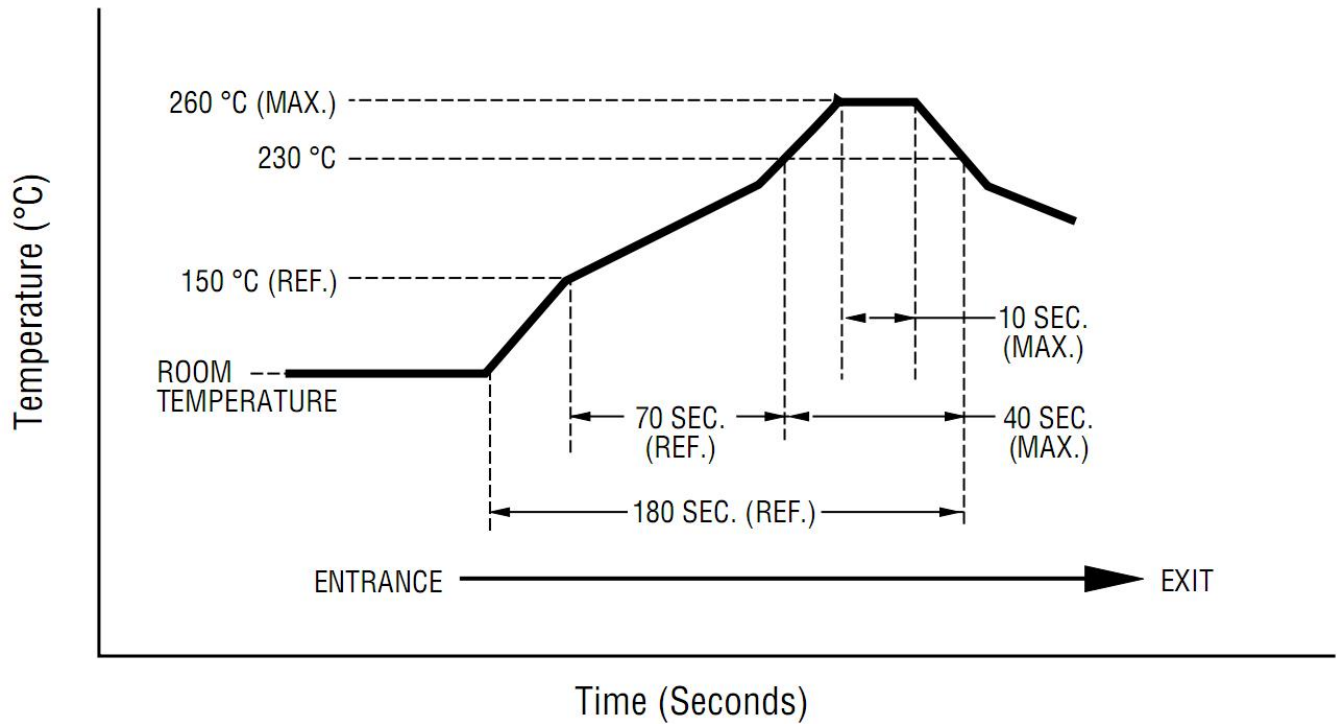
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Recommended Reflow Solder Profile

Figure 11. MG-EGP2S Recommended Reflow Solder Profile



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Revision	Description	Date
Rev0	Preliminary	2026/08/19

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