

MG-EGP2X1

2 way Power Splitters/Combiners



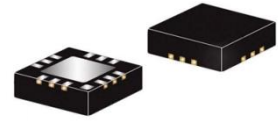
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Applications

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-EGP2X1 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-EGP2X1 is Based on IPD technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specifications

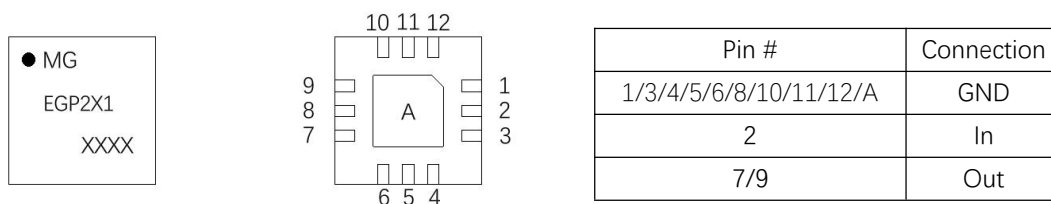
Table 1. MG-EGP2X1 Electrical Specifications

Item	Min.	Type.	Max.	Unit
Frequency Range	2800		7200	MHz
Isolation	12		24	dB
Insertion Loss		0.75	1.5	dB
Phase Unbalance	-3	1	+3	Deg.
Amplitude	-1	0.35	+1	dB
Return Loss	8	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-EGP2X1 Port Configurations (Bottom View)



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Typical Performance (25°C, 2800-7200MHz)

Figure 2. MG-EGP2X1 Return Loss(S11)

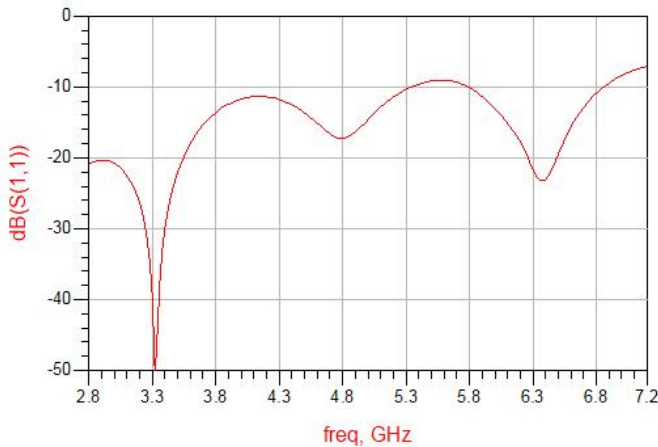


Figure 3. MG-EGP2X1 Return Loss (S22)

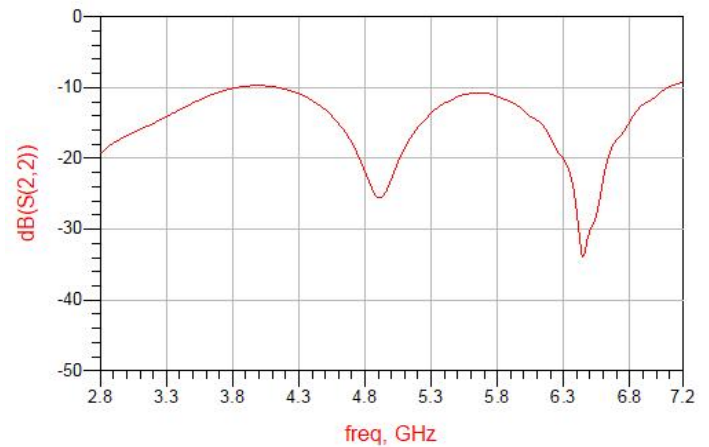


Figure 4. MG-EGP2X1 Return Loss (S33)

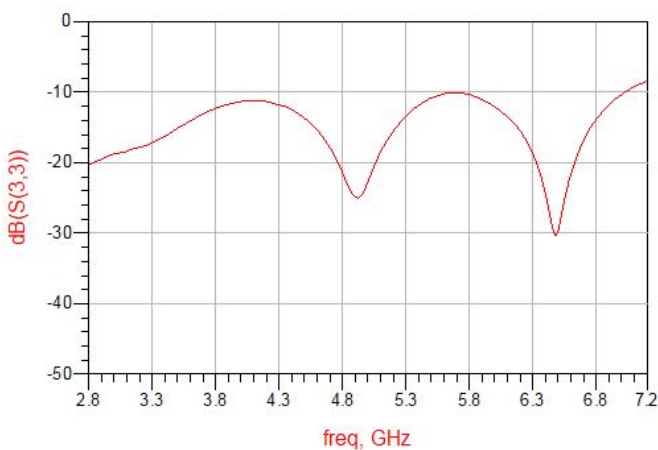


Figure 5. MG-EGP2X1 Insertion Loss (S21)

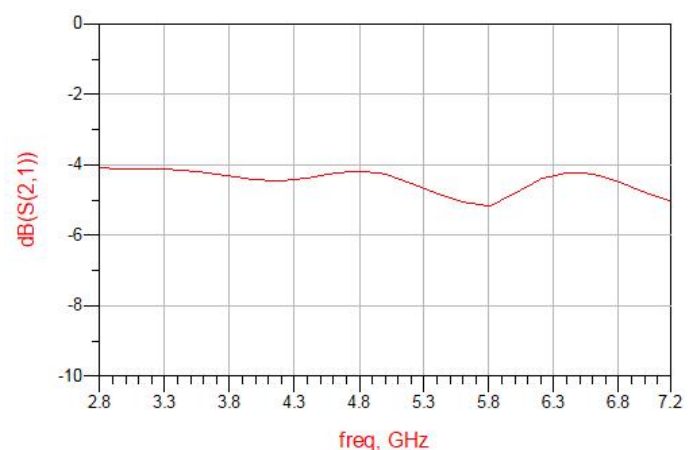


Figure 6. MG-EGP2X1 Insertion Loss (S31)

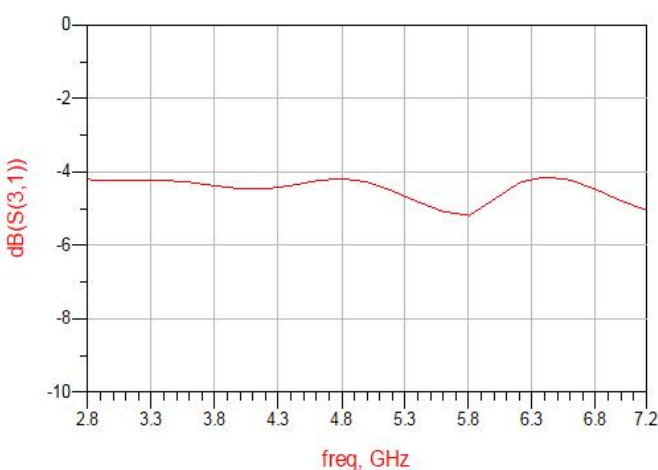
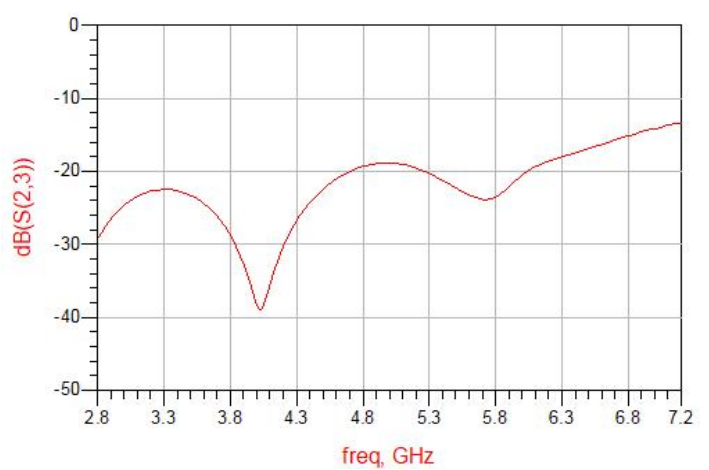


Figure 7. MG-EGP2X1 Isolation



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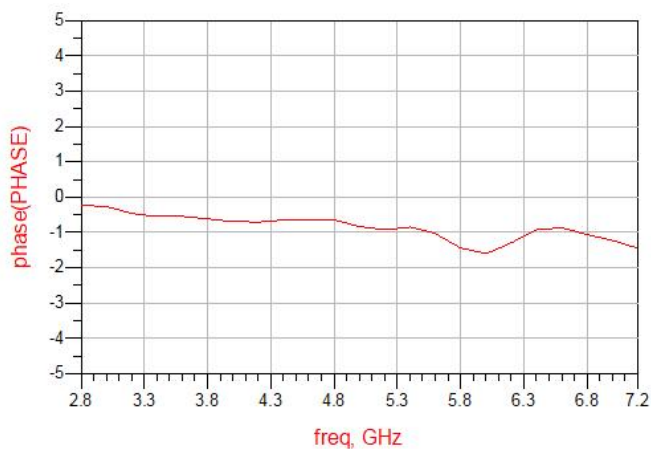
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Figure 8. MG-EGP2X1 Phase



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Outline Drawing

Figure 9. MG-EGP2X1 Outline Drawing

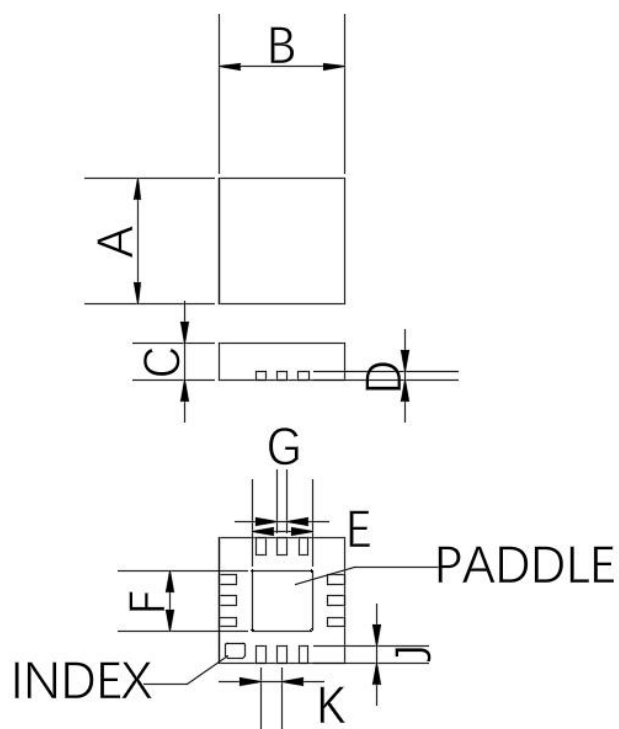
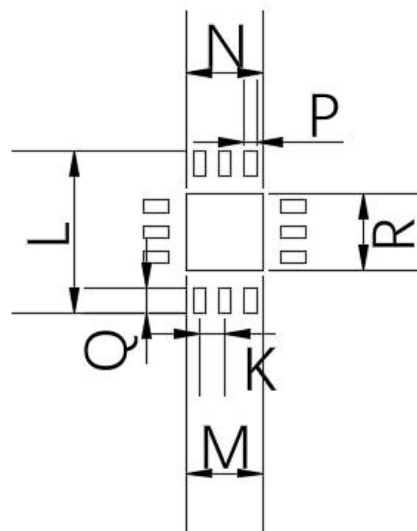


Figure 10. MG-EGP2X1 Recommended PCB Layout



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-EGP2X1 Ordering Information

Device	Package	Reel	Shipping
MG-EGP2X1	3*3mm	7"	3000/Reel

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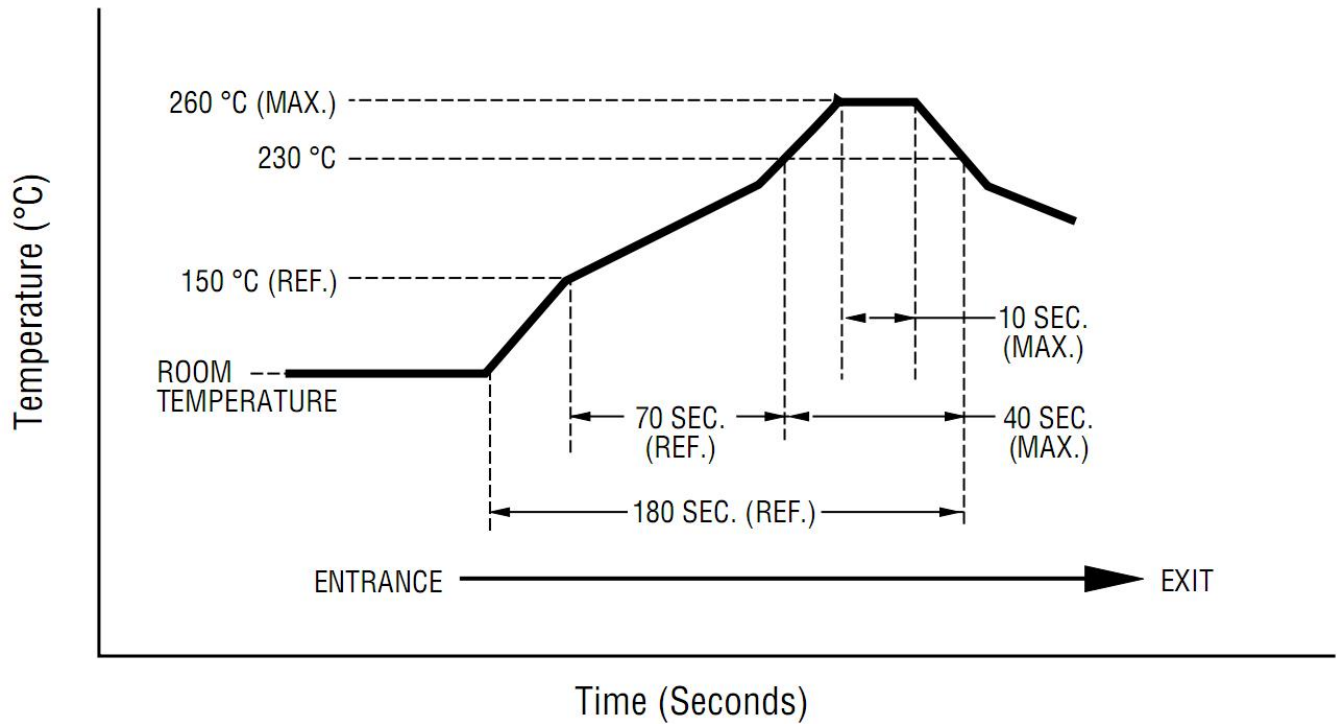
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Recommended Reflow Solder Profile

Figure 11. MG-EGP2X1 Recommended Reflow Solder Profile



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Revision	Description	Date
Rev0	Preliminary	2026/08/19

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