

MG-EGP2Y

2 way Power Splitters/Combiners



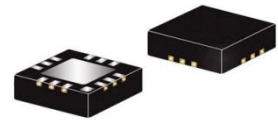
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Applications

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

Features

1. Low Insertion Loss 1.3dB typ based on IPD technology
2. Based on IPD technology
3. High isolation
4. Frequency wide Band
5. AEC-Q200 qualified



Description

The MG-EGP2Y 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-EGP2Y is Based on IPD technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specifications

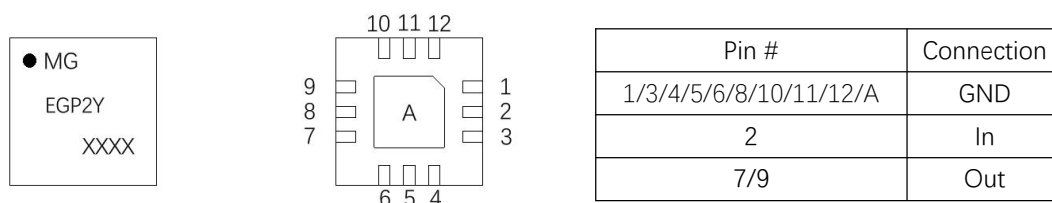
Table 1. MG-EGP2Y Electrical Specifications

Item	Min.	Type.	Max.	Unit
Frequency Range	1600		3300	MHz
Isolation	15		24	dB
Insertion Loss		0.8	1.3	dB
Phase Unbalance	-3	1	+3	Deg.
Amplitude	-0.5	0.35	+0.5	dB
Return Loss	12	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-EGP2Y Port Configurations (Bottom View)



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Typical Performance (25°C, 1600-3300MHz)

Figure 2. MG-EGP2Y Return Loss(S11)

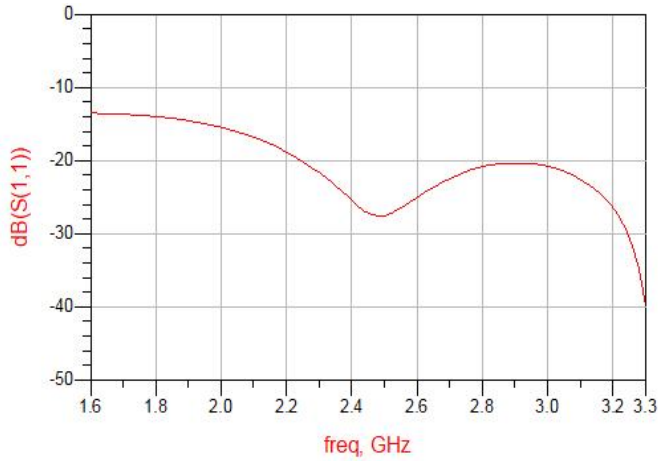


Figure 3. MG-EGP2Y Return Loss (S22)

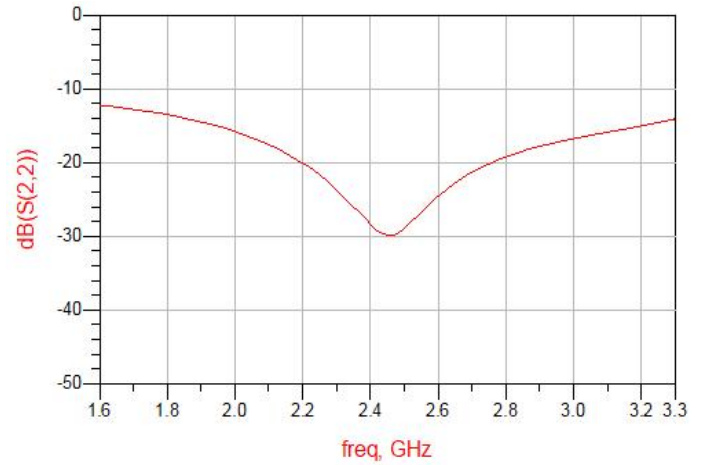


Figure 4. MG-EGP2Y Return Loss (S33)

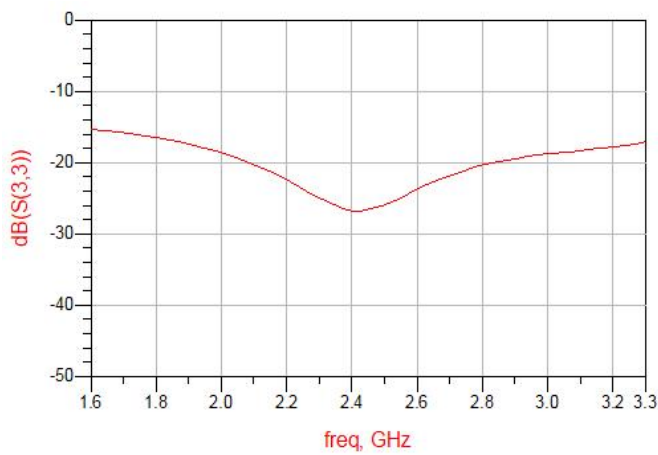


Figure 5. MG-EGP2Y Insertion Loss (S21)

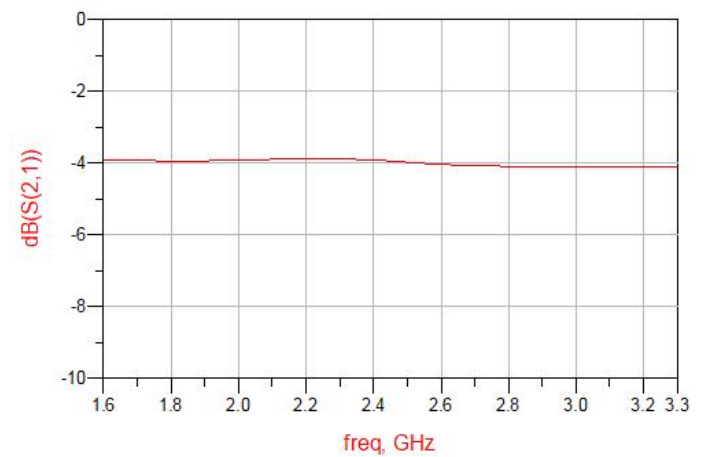


Figure 6. MG-EGP2Y Insertion Loss (S31)

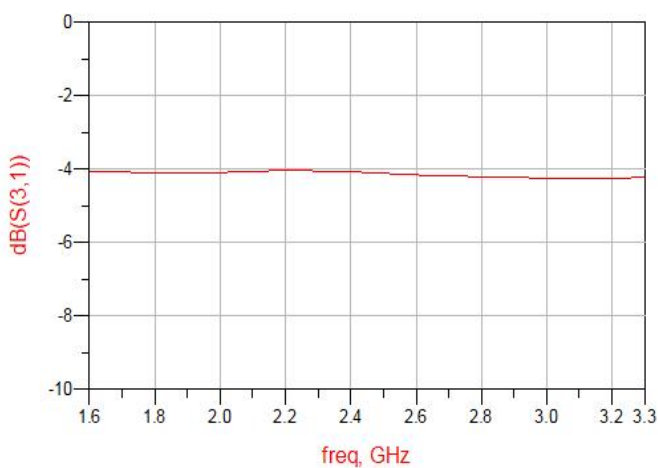
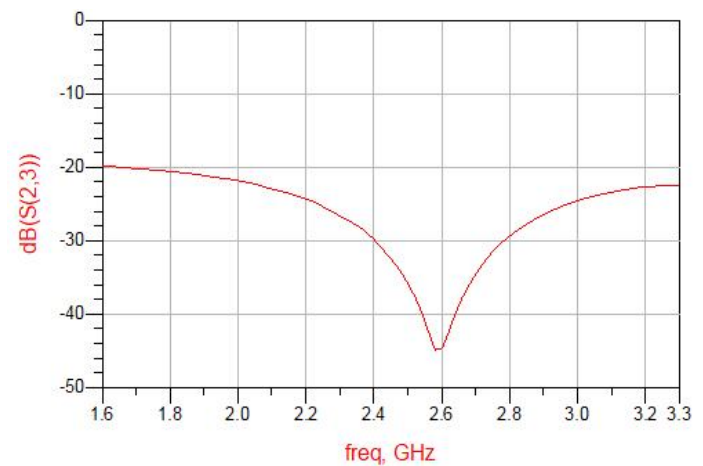


Figure 7. MG-EGP2Y Isolation



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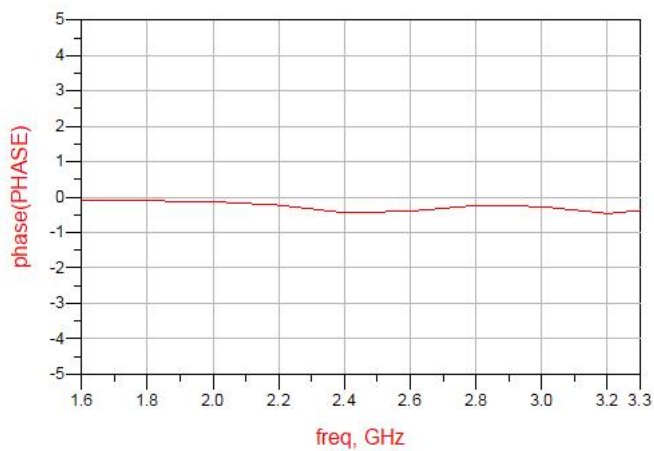
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Figure 8. MG-EGP2Y Phase



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Outline Drawing

Figure 9. MG-EGP2Y Outline Drawing

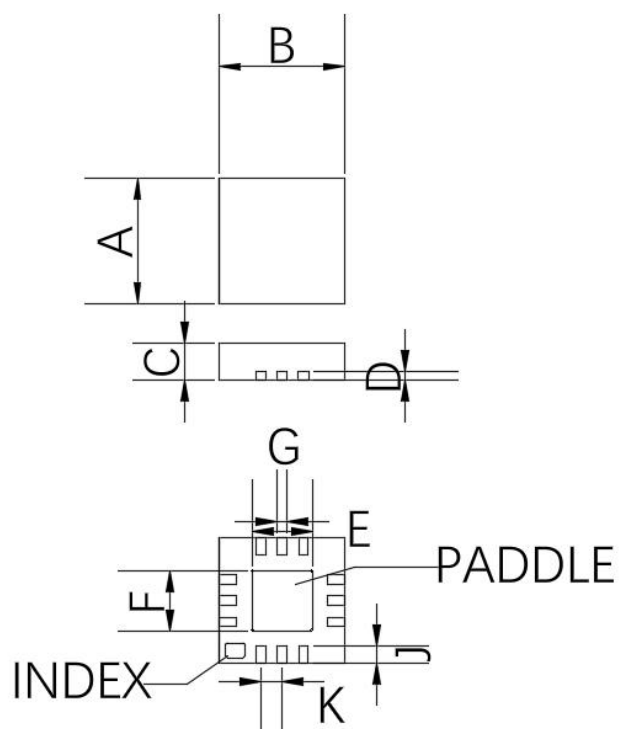
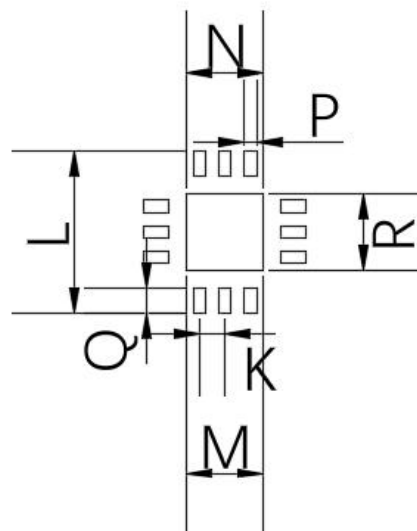


Figure 10. MG-EGP2Y Recommended PCB Layout



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-EGP2Y Ordering Information

Device	Package	Reel	Shipping
MG-EGP2Y	3*3mm	7"	3000/Reel

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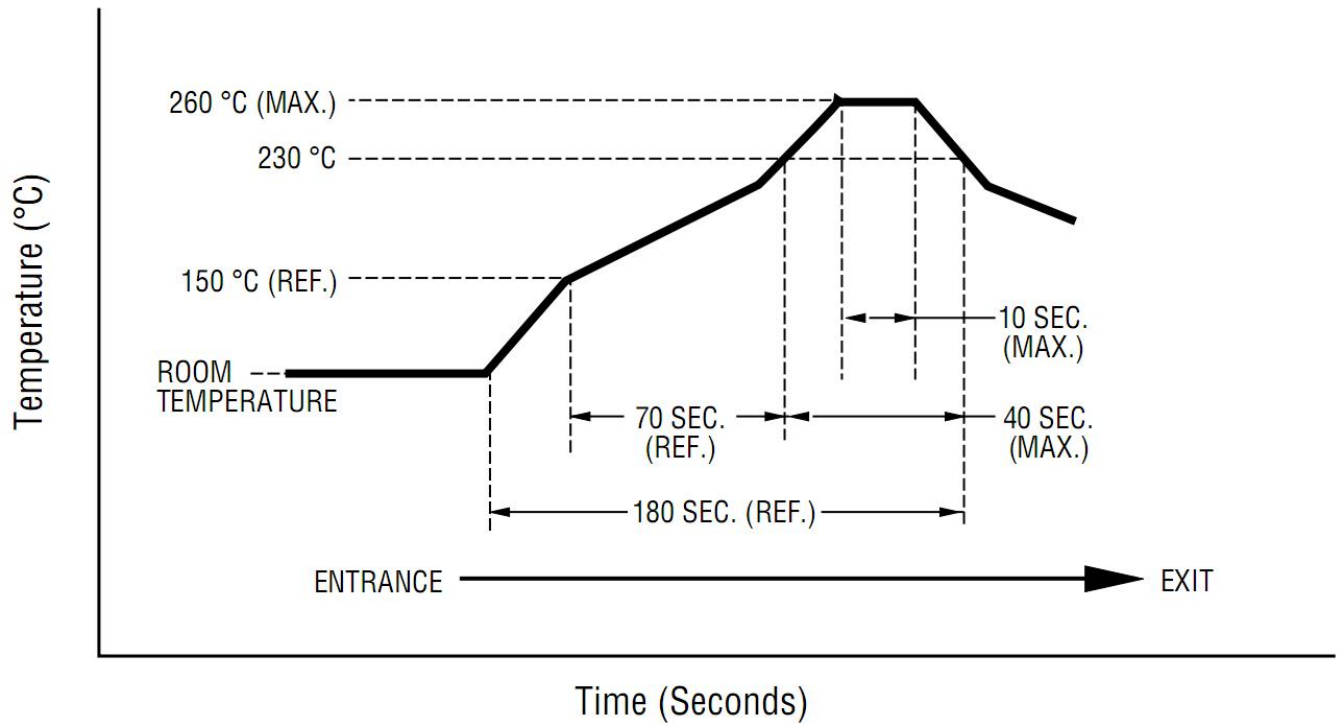
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Recommended Reflow Solder Profile

Figure 11. MG-EGP2Y Recommended Reflow Solder Profile



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Revision	Description	Date
Rev0	Preliminary	2026/08/19

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