

MPD0630W2

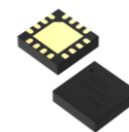
2 ways Power Splitter/Combiners



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Applications

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



Features

1. Low Insertion Loss 0.75dB typ based on IPD technology
2. Based on IPD technology
3. High isolation
4. Frequency wide Band
5. AEC-Q200 qualified

Description

The MPD0630W2 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. MPD0630W2 is Based on IPD technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specifications

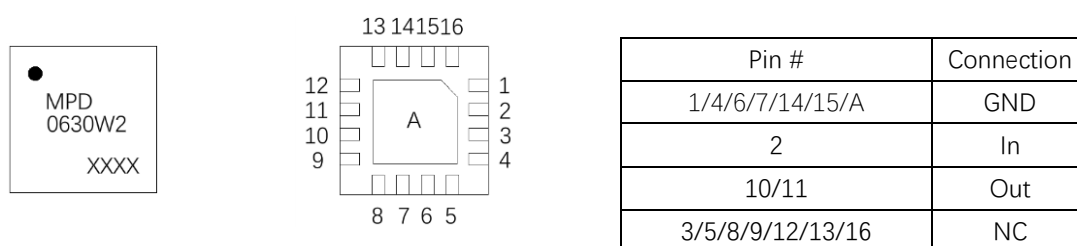
Table 1. MPD0630W2 Electrical Specifications

Item	Min.	Type.	Max.	Unit
Frequency Range	600		3000	MHz
Insertion Loss		0.75	1	dB
Isolation	8	15	33	dB
Amplitude Unbalance		0.35	+1	
Phase Unbalance	-5	2	+5	Deg.
Return Loss	11	18	30	dB
Operating Temp.	-55		+125	°C
Power Input (2 port)			2	Watt

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

Port Configurations

Figure 1. MPD0630W2 Port Configurations (Bottom View)



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Typical Performance(25°C, 600-3000 MHz)

Figure 2. MPD0630W2 Return Loss(S2,2)

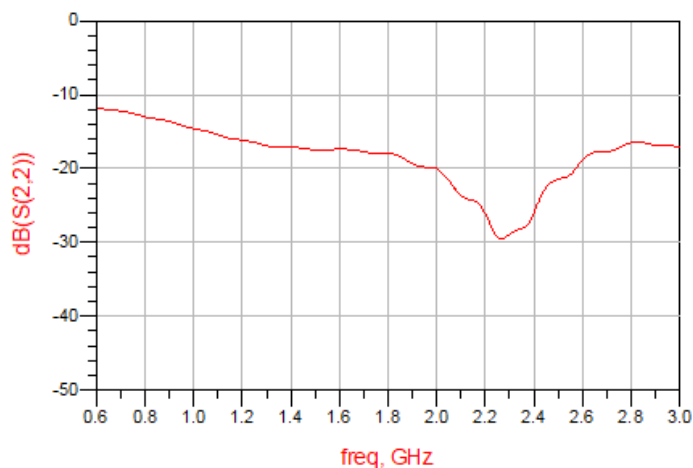


Figure 3. MPD0630W2 Insertion Loss (S10,10)

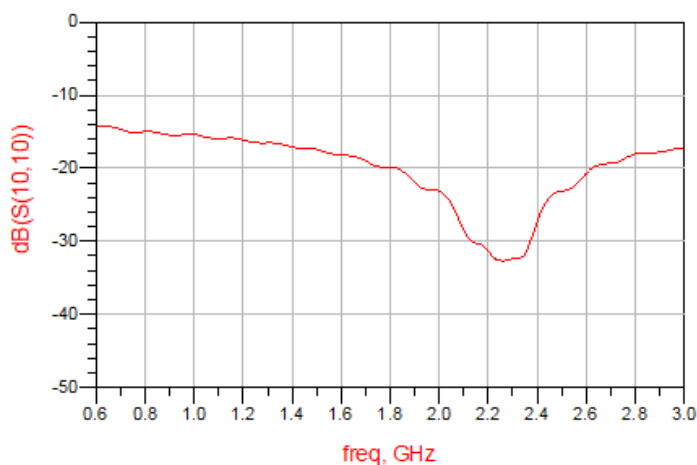


Figure 4. MPD0630W2 Insertion Loss (S11,11)

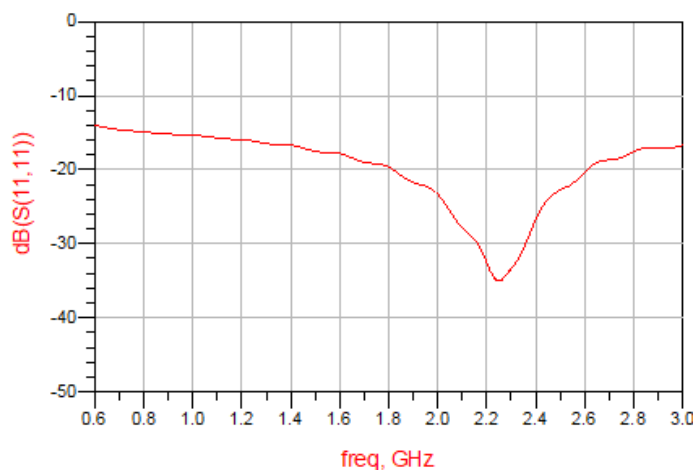


Figure 5. MPD0630W2 Insertion Loss (S10,2)

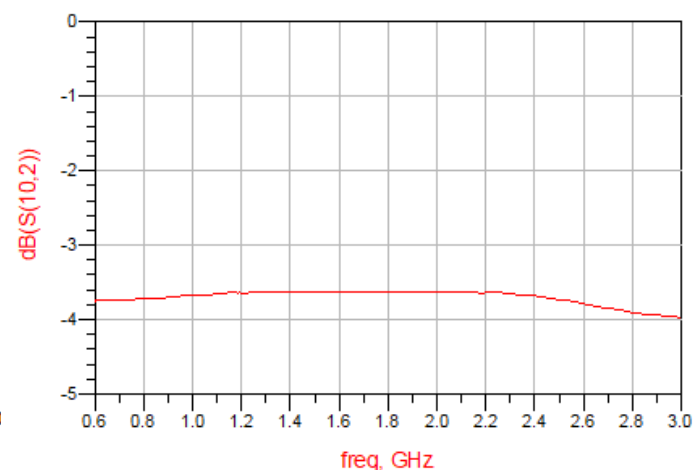


Figure 6. MPD0630W2 Insertion Loss (S11,2)

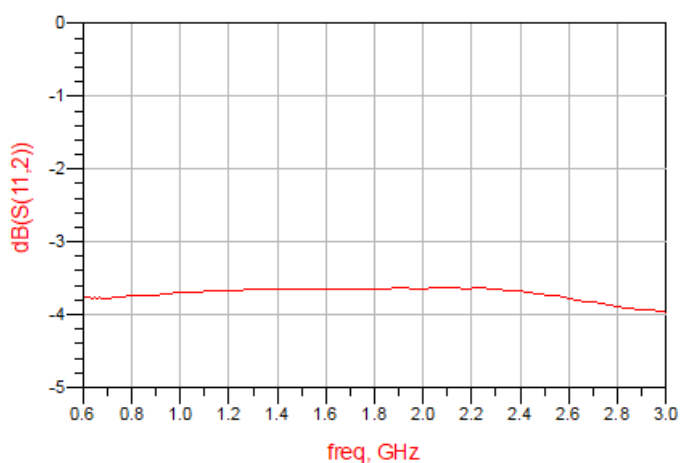
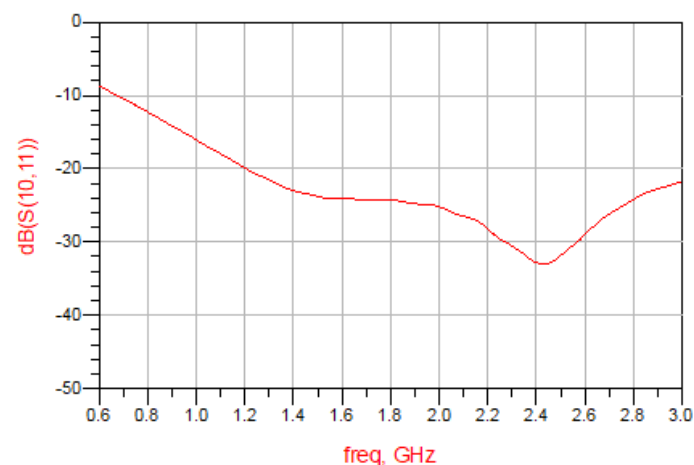


Figure 7. MPD0630W2 Isolation(S10,11)



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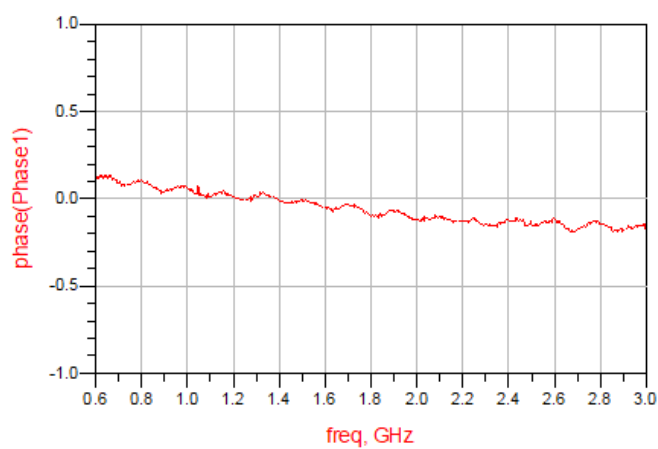
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Figure 8. MPD0630W2 Phase



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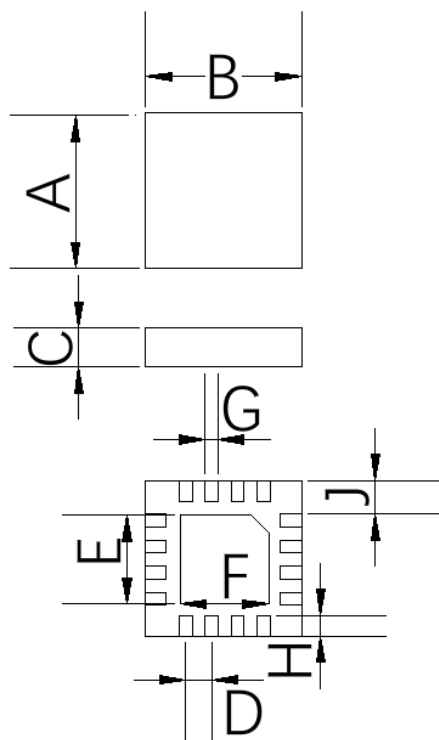
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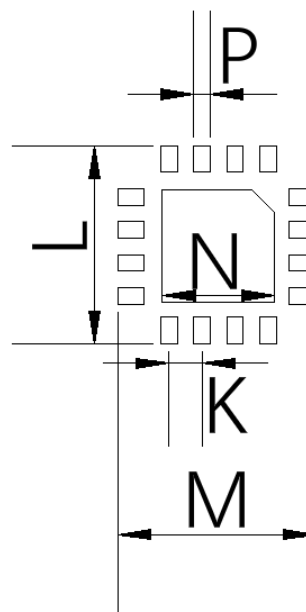
Outline Drawing

Figure 9. MPD0630W2 Outline Drawing



Outline Dimensions (mm)

Figure 10. MPD0630W2 Recommended PCB Layout



A	B	C	D	E	F	G	H	J
3.00	3.00	0.75	0.50	1.7	1.7	0.25	0.40	0.62
K	L	M	N	P	Q	R		Wt
0.50	3.23	3.23	1.70	0.25	...	...		0.02

Table 2. MPD0630W2 Ordering Information

Device	Package	Reel	Shipping
MPD0630W2	3*3mm	7"	1000/Reel

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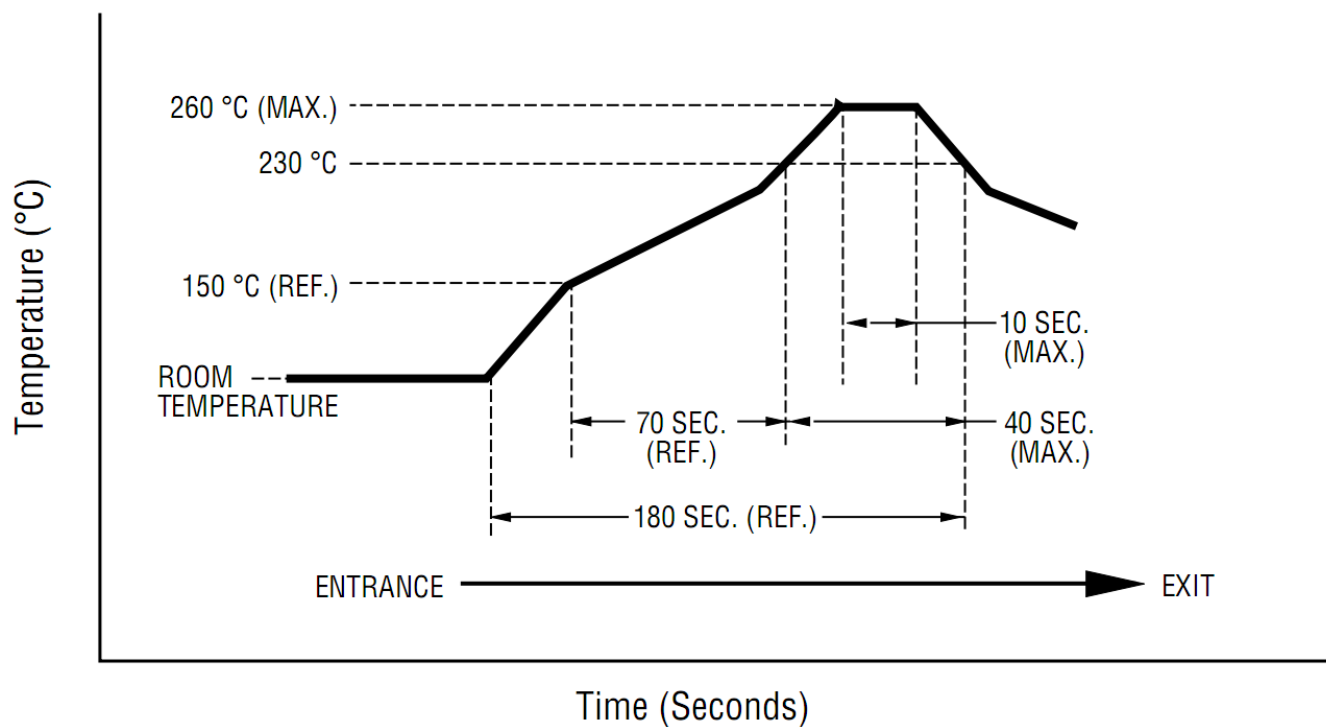
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Recommended Reflow Solder Profile

Figure 11. MPD0630W2 Recommended Reflow Solder Profile



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Revision	Description	Date
Rev0	Preliminary	2023/03/05
Rev1	Update	2026/09/24

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