



ZAPD-2500-N

Wideband power splitter/combiner
HF to UHF 5-2500 MHz



The ZAPD-2500-N is a wideband power splitter or combiner suitable for HF to UHF applications utilising the 5-2500 MHz frequency range. The ZAPD-2500-N wideband power splitter/combiner is suitable for VHF/UHF, PCS, GPS, Cellular or instrumentation applications.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Alternate model Order codes:

- ZAPD-2500-SMA SMA female terminations

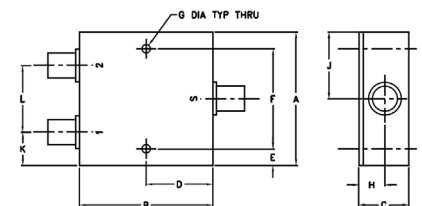


Electrical specifications

Frequency range	5-2500 MHz
Bandwidth	Full frequency range
Insertion loss above 3.0dB	Max: 2.4 - See table below
Isolation	Min: 14 dB - See table below
Phase unbalance	Max: 5 degrees - See table below
Amplitude unbalance	Max: 0.6dB - See table below
Maximum input power	1 Watt - as a splitter
VSWR	≤1.6:1 - Typical - See table below
Impedance	50 Ohms
Internal dissipation	Max: 0.04 Watt

Mechanical specifications

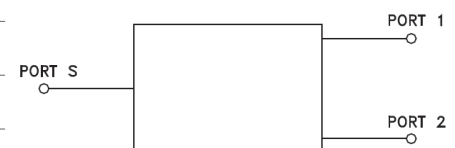
Construction	Rugged aluminium outer body and tri-metal plated terminations
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-55°C to +100°C
Storage temperature	-55°C to +100°C
Dimensions	Length: 50.8mm, Width: 50.8mm, Height: 19.05mm
Weight	170grams
Mounting position	Mount utilising the 2 x 3mm holes through the body



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18
H	J	K	L	wt		
0.39	1.00	0.50	1.00	grams		
9.91	25.40	12.70	25.40	170.0		

electrical schematic





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Electrical Specifications

Frequency Range (MHz)	Isolation (dB)						Insertion Loss (dB) above 3.0 dB						Phase Unbalance (degrees)			Amplitude Unbalance (degree)			VSWR			
	L		M		U		L		M		U		L	M	U	L	M	U	S	Out		
f _i -f _u	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.	
5-2500	25	19	17	14	17	14	0.3	0.6	0.8	1.7	1.5	2.4	2	3	5	0.2	0.4	0.6	1.6	-	1.3	-

L = Low range [f_i to 10 f_i] M = Mid range [10 f_i to f_u/2] U = Upper range [f_u/2 to f_u]

Typical Performance Data

Frequency Range (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (degree)	VSWR		
	S1	S2				S	S-1	S-2
5	3.33	3.32	0.01	24.94	0.03	1.07	1.20	1.20
150	3.37	3.36	0.02	26.51	0.08	1.11	1.10	1.09
300	3.42	3.41	0.01	24.22	0.06	1.19	1.14	1.12
450	3.51	3.49	0.02	21.69	0.12	1.27	1.18	1.16
600	3.60	3.57	0.03	20.59	0.19	1.36	1.22	1.20
750	3.68	3.64	0.04	19.22	0.26	1.45	1.27	1.25
900	3.83	3.79	0.04	17.61	0.24	1.54	1.31	1.30
1000	3.85	3.82	0.02	17.12	0.41	1.61	1.35	1.34
1200	3.99	3.94	0.05	16.83	0.08	1.73	1.42	1.41
1400	4.14	4.02	0.13	17.10	1.12	1.84	1.49	1.49
1600	4.39	4.38	0.01	17.09	1.56	1.89	1.52	1.53
1800	4.57	4.61	0.04	16.43	2.12	1.88	1.52	1.54
2000	4.67	4.69	0.02	17.14	2.02	1.77	1.48	1.49
2400	4.44	4.48	0.03	23.33	2.38	1.37	1.28	1.29
2500	4.54	4.52	0.02	22.33	2.12	1.26	1.23	1.25

Total loss = Insertion loss + 3dB splitter loss

