



ZAPD-1-N

DC Pass power splitter/combiner UHF 500-1000 MHz



The ZAPD-1-N is a DC pass power splitter or combiner suitable for UHF or all networks lower 4G/3G mobile phone or UHF STL link applications utilising the 500-1000MHz frequency range.

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

Order codes:

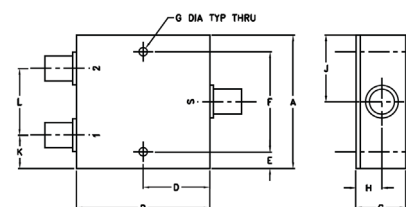
- ZAPD-1-N N-type female terminations
- ZAPD-1-BNC BNC female terminations
- ZAPD-1-SMA SMA female terminations

Electrical specifications

Frequency range	500-1000 MHz - UHF, 4G LTE and lower 4G/3G compatible
Bandwidth	Full frequency range stated - 500 MHz
Insertion loss above 3.0dB	Typical: 0.25dB ; Max: 0.6dB
Isolation	Typical: 25dB ; Min: 19dB
Phase unbalance	Max: 2° (degrees)
Amplitude unbalance	Max: 0.2dB
Maximum input power	10 Watts - input
VSWR	≤1.1:1 - Typical
Impedance	50 Ohms
Internal dissipation	Max: 0.125W
DC current	500mA (250mA for each port)
Directivity	>20dB

Mechanical specifications

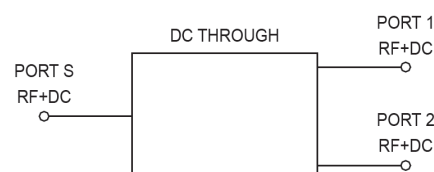
Construction	Rugged aluminium outer body and tri-metal plated terminations
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-55°C to +100°C
Storage temperature	-55°C to +100°C
Dimensions	Length: 50.8mm, Width: 50.8mm, Height: 19.05mm
Weight	170grams
Mounting position	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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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
500	3.14	3.14	0.00	22.98	0.10	1.09	1.10	1.10
512.5	3.15	3.13	0.02	23.95	0.07	1.07	1.10	1.09
537.5	3.14	3.14	0.00	26.20	0.02	1.04	1.09	1.08
562.5	3.16	3.17	0.01	28.96	0.07	1.02	1.08	1.08
587.5	3.17	3.17	0.00	32.19	0.13	1.03	1.07	1.07
625	3.15	3.16	0.00	35.73	0.08	1.06	1.07	1.07
662.5	3.17	3.17	0.00	33.23	0.13	1.08	1.07	1.07
700	3.17	3.17	0.00	30.16	0.09	1.09	1.08	1.08
737.5	3.22	3.22	0.00	28.42	0.10	1.09	1.09	1.09
787.5	3.23	3.22	0.01	27.39	0.13	1.08	1.11	1.11
837.5	3.08	3.08	0.00	27.65	0.10	1.05	1.12	1.12
887.5	3.34	3.35	0.01	30.13	0.11	1.05	1.13	1.13
937.5	3.23	3.22	0.01	36.50	0.24	1.09	1.13	1.13
975.5	3.18	3.18	0.00	53.09	0.19	1.14	1.13	1.12
1000	3.27	3.28	0.01	36.11	0.19	1.18	1.13	1.12

Total loss = Insertion loss + 3dB splitter loss

