ZAPD2-1-N

DC Pass power splitter/combiner
UHF 1000-2000MHz

RoHS COMPLIANT

Build To Order

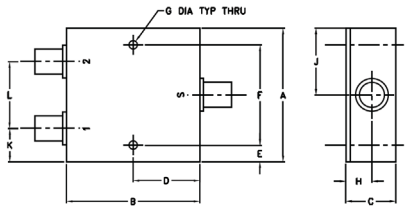
The ZAPD2-1-N is a DC pass power splitter or combiner suitable for UHF or UHF STL link applications utilising the 1000-2000MHz frequency range.

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

Order codes:

- ZAPD2-1-N — N-type female terminations
- ZAPD2-1-BNC — BNC female terminations
- ZAPD2-1-SMA — SMA female terminations

Electrical specifications	
Frequency range	500-1000MHz
Bandwidth	Full frequency range
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	800mA (400mA 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

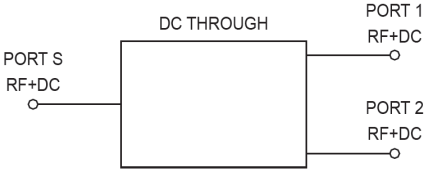


Outline Dimensions (inch / mm)

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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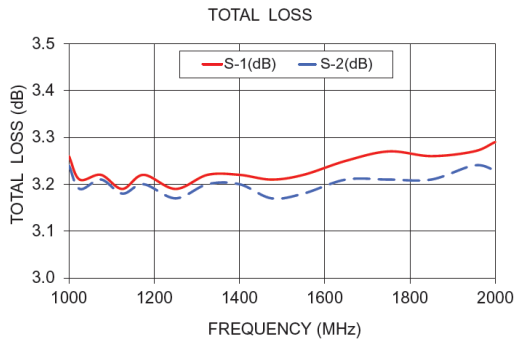
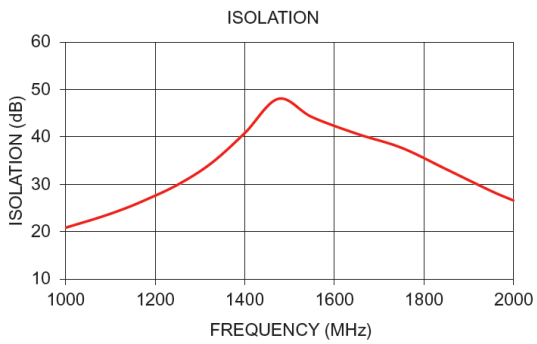
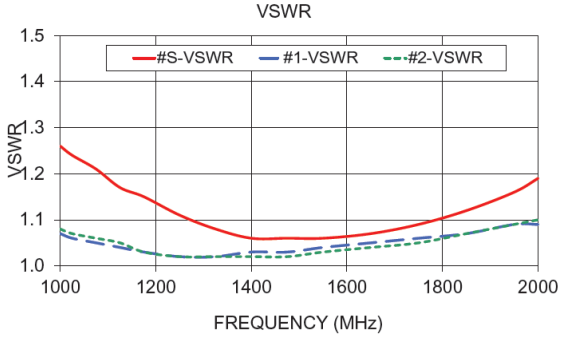
Typical Performance Data

Frequency Range (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (degree)	VSWR		
	S1	S2				S	S-1	S-2
1000	3.26	3.24	0.02	20.82	0.14	1.26	1.07	1.08
1025	3.21	3.19	0.01	21.53	0.14	1.24	1.06	1.07
107	3.22	3.21	0.01	22.97	0.12	1.21	1.05	1.06
1125	3.19	3.18	0.01	24.61	0.16	1.17	1.04	1.05
1175	3.22	3.20	0.02	26.54	0.13	1.15	1.03	1.03
1250	3.19	3.17	0.02	29.88	0.17	1.11	1.02	1.02
1325	3.22	3.20	0.0	34.41	0.15	1.08	1.02	1.02
1400	3.22	3.20	0.02	40.79	0.23	1.06	1.03	1.02
1475	3.21	3.17	0.04	48.01	0.27	1.06	1.03	1.02
1550	3.22	3.18	0.04	44.16	0.23	1.06	1.04	1.03
1650	3.25	3.21	0.04	40.64	0.23	1.07	1.05	1.04
1750	3.27	3.21	0.05	37.67	0.17	1.09	1.06	1.05
1850	3.26	3.21	0.05	33.14	0.22	1.12	1.07	1.07
1950	3.27	3.24	0.03	28.56	0.27	1.16	1.09	1.09
2000	3.29	3.23	0.06	26.55	0.20	1.19	1.09	1.10

Total loss = Insertion loss + 3dB splitter loss







1 Year Manufacturers Warranty
Terms & Conditions apply.

Specifications are subject to change without prior notice

Updated 4th March 2020