RoHS COMPLIANT

ZAPD-2-4

2-way coaxial power splitter/combiner
HF, VHF & UHF 200kHz-1000MHz

Build To Order

The ZAPD-2-4 is a coaxial power splitter or combiner suitable for HF, VHF, UHF or UHF STL link applications utilising the 200kHz-1000MHz frequency range.

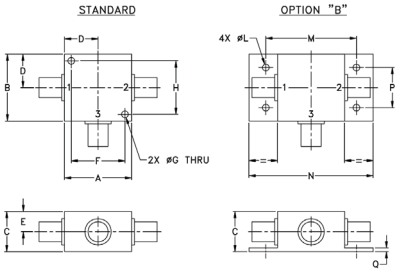
Coaxial cable assemblies, adaptors, antennas and other RF soltions are all available separately.

Order codes:

- ZAPD-2-4-N — N-type female terminations
- ZAPD-2-4-BNC — BNC female terminations
- ZAPD-2-4-SMA — SMA female terminations
- ZAPD-2-4-*-B — Model with bracket fixing

Electrical specifications	
Frequency range	200kHz-1000MHz
Bandwidth	Full frequency range
Insertion loss above 3.0dB	L: 0.2dB ; M: 0.5dB ; U: 0.9dB
Isolation - typical	L: 20dB ; M: 25dB ; U: 23dB
Phase unbalance	L: 2° ; M: 4° ; U: 4°
Amplitude unbalance	L: 0.15dB ; M: 0.15dB ; U: 0.30dB
Maximum input power	1 Watts - as a splitter
VSWR	≤1.1:1 - Typical
Impedance	50 Ohms
Internal dissipation	Max: 0.125W
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: 31.75mm, Width: 31.75mm, Height: 19.05mm
Weight	70grams
Mounting position	Mount utilising the 2 x 3mm holes through the body

Outline Drawing



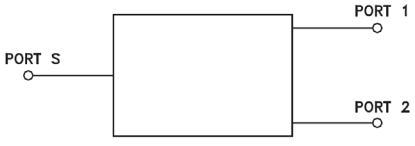
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

For option B with N-type connectors, dimension "C" increases to 0.94 inches.

electrical schematic



1 Year Manufacturers Warranty Terms & Conditions apply.

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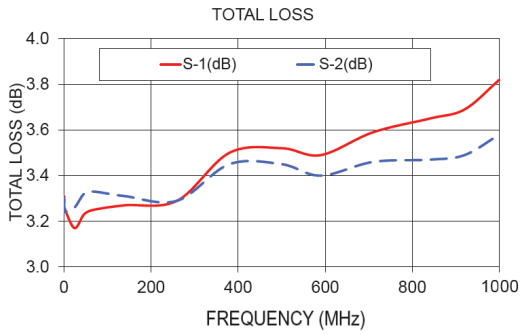
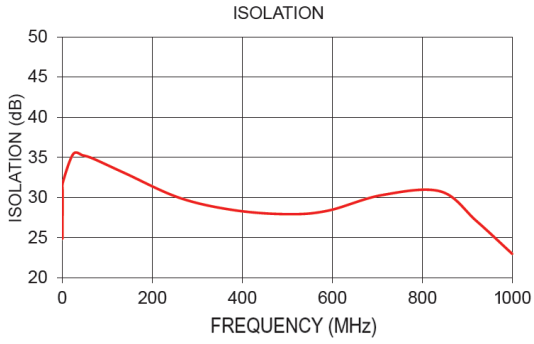
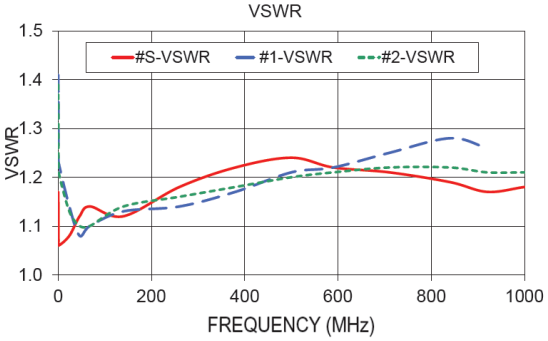
Typical Performance Data

Frequency Range (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (degree)	VSWR		
	S1	S2				S	S-1	S-2
0.20	3.31	3.30	0.02	24.83	0.10	1.17	1.41	1.39
0.70	3.29	3.24	0.05	30.54	0.20	1.07	1.25	1.23
1	3.26	3.24	0.03	31.83	0.36	1.06	1.23	1.21
24	3.17	3.26	0.09	35.39	0.03	1.08	1.14	1.13
46	3.23	3.32	0.08	35.23	0.09	1.12	1.08	1.10
68	3.25	3.33	0.08	34.84	0.18	1.14	1.10	1.10
140	3.27	3.31	0.04	32.99	0.27	1.12	1.13	1.14
260	3.29	3.29	0.01	29.95	0.36	1.18	1.14	1.16
380	3.50	3.45	0.04	28.42	0.25	1.22	1.17	1.18
500	3.52	3.45	0.07	27.91	0.21	1.24	1.21	1.20
590	3.49	3.40	0.09	28.34	0.17	1.22	1.22	1.21
710	3.59	3.46	0.13	30.28	0.34	1.21	1.25	1.22
840	3.65	3.47	0.18	30.75	0.49	1.19	1.28	1.22
920	3.69	3.49	0.20	27.07	0.65	1.17	1.26	1.21
1000	3.82	3.58	0.24	22.95	0.81	1.18	1.27	1.21

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