

Coaxial

Power Splitter/Combiner

ZAPD-50W+

2 Way-0° 50Ω 4200 to 6000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Features

- low insertion loss, 0.3 dB typ.
- good isolation, 26 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- wireless
- defense
- communications



CASE STYLE: F14

Connectors	Model	Price	Qty.
N-TYPE	ZAPD-50W-N+	\$69.95	(1-9)

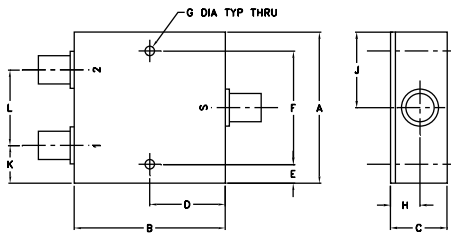
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS(dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
f_L - f_U					Max.	Max.	Typ.	Max.	Typ.	Max.
4200-6000	26	16	0.3	0.8	5	0.7	—	—	—	—

Outline Drawing



Outline Dimensions (inch/mm)

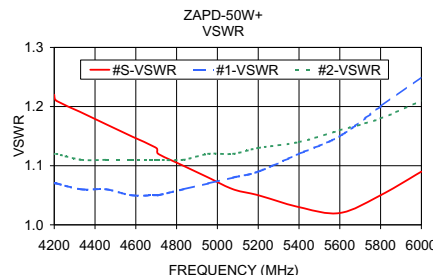
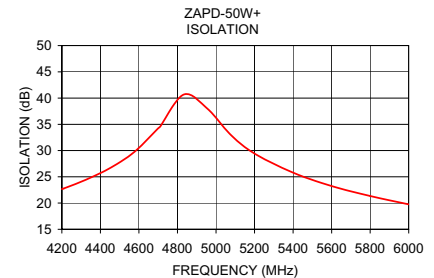
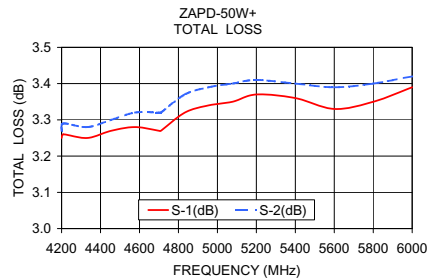
A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18

H	J	K	L	wt
0.39	1.00	0.50	1.00	grams
9.91	25.40	12.70	25.40	170.0

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
4200.00	3.25	3.27	0.02	22.67	1.22	1.07	1.12
4210.00	3.26	3.29	0.03	22.77	1.21	1.07	1.12
4332.50	3.25	3.28	0.03	24.57	1.19	1.06	1.11
4455.00	3.27	3.30	0.04	26.77	1.17	1.06	1.11
4577.50	3.28	3.32	0.04	29.78	1.15	1.05	1.11
4700.00	3.27	3.32	0.05	34.24	1.13	1.05	1.11
4710.00	3.27	3.32	0.06	34.56	1.12	1.05	1.11
4832.50	3.32	3.37	0.05	40.68	1.10	1.06	1.11
4955.00	3.34	3.39	0.05	37.99	1.08	1.07	1.12
5077.50	3.35	3.40	0.05	32.96	1.06	1.08	1.12
5200.00	3.37	3.41	0.04	29.43	1.05	1.09	1.13
5400.00	3.36	3.40	0.04	25.79	1.03	1.12	1.14
5600.00	3.33	3.39	0.06	23.24	1.02	1.15	1.16
5800.00	3.35	3.40	0.06	21.34	1.05	1.20	1.18
6000.00	3.39	3.42	0.04	19.75	1.09	1.25	1.21

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



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