

Power Splitter/Combiner

ZA3PD-2+

3 Way-0° 50Ω 1000 to 2000 MHz

Maximum Ratings

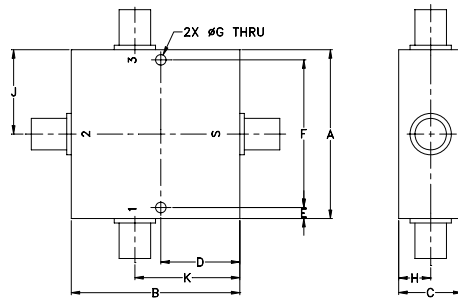
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.2 A (400 mA for each port)

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
2.00	2.00	.75	.938	.13	1.750
50.80	50.80	19.05	23.83	3.30	44.45
G	H	J	K	wt	
.125	.38	1.00	1.25	grams	
3.18	9.65	25.40	31.75	200.0	

Features

- low insertion loss, 0.3 dB typ.
- good isolation, 20 dB typ.
- up to 10W power input as splitter
- rugged, shielded case

Applications

- GPS
- PCS/DCS
- communication system
- instrumentation



SMA version shown
CASE STYLE: CC51

Connectors	Model
SMA	ZA3PD-2-S+
N-TYPE	ZA3PD-2-N+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

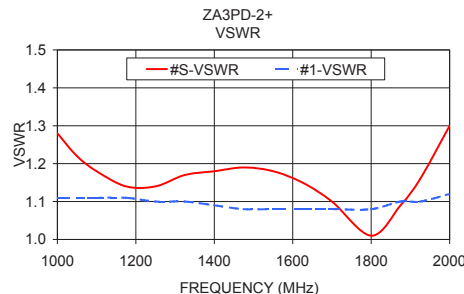
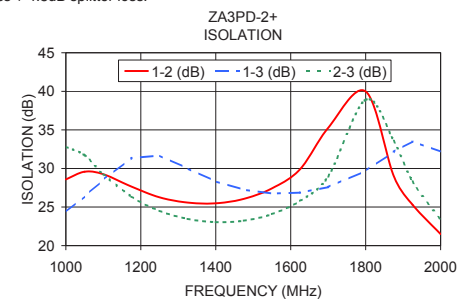
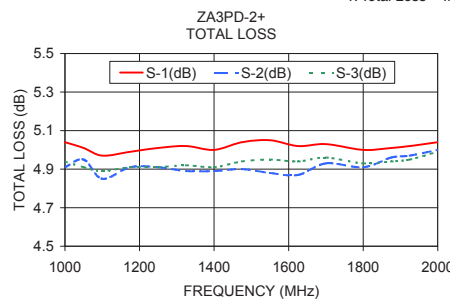
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.		
f_L - f_U					Max.	Max.
1000-2000	20	15	0.3	0.6	—	0.3

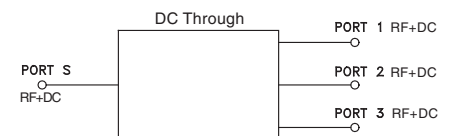
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
1000.00	5.04	4.91	4.94	0.13	28.58	24.37	32.79	6.80	1.28	1.11	1.16	1.10
1050.00	5.01	4.95	4.91	0.10	29.58	26.39	31.73	6.58	1.22	1.11	1.15	1.09
1100.00	4.97	4.85	4.89	0.12	29.25	28.53	29.26	7.10	1.18	1.11	1.14	1.09
1175.00	4.99	4.91	4.91	0.09	27.65	31.36	26.37	7.65	1.14	1.11	1.12	1.08
1250.00	5.01	4.91	4.91	0.10	26.26	31.67	24.51	8.18	1.14	1.10	1.09	1.08
1325.00	5.02	4.89	4.92	0.13	25.58	30.00	23.47	8.53	1.17	1.10	1.07	1.07
1400.00	5.00	4.89	4.91	0.10	25.49	28.32	23.05	9.00	1.18	1.09	1.05	1.07
1475.00	5.04	4.90	4.94	0.14	26.06	27.24	23.23	9.54	1.19	1.08	1.03	1.06
1550.00	5.05	4.88	4.95	0.18	27.42	26.75	24.09	10.02	1.18	1.08	1.03	1.06
1625.00	5.02	4.87	4.94	0.14	29.90	26.87	25.81	10.76	1.15	1.08	1.05	1.05
1700.00	5.03	4.93	4.96	0.10	35.26	27.59	28.96	11.28	1.10	1.08	1.06	1.05
1800.00	5.00	4.91	4.93	0.10	39.99	29.69	38.91	11.76	1.01	1.08	1.09	1.06
1875.00	5.01	4.96	4.94	0.07	29.01	32.17	33.58	12.40	1.09	1.10	1.11	1.07
1925.00	5.02	4.97	4.95	0.07	25.31	33.50	28.31	12.58	1.16	1.10	1.12	1.08
2000.00	5.04	5.00	4.99	0.04	21.49	32.18	23.34	13.16	1.30	1.12	1.14	1.10

1. Total Loss = Insertion Loss + 4.8dB splitter loss.



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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