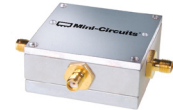


Power Splitter/Combiner

ZA3PD-1.5+

3 Way-0° 50Ω 750 to 1500 MHz



SMA version shown
CASE STYLE: CC51

Connectors	Model
SMA	ZA3PD-1.5-S+
N-TYPE	ZA3PD-1.5-N+

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

Maximum Ratings

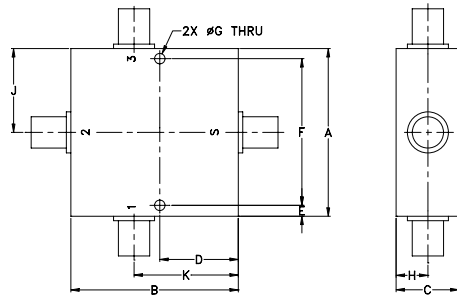
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W
Internal Dissipation	0.375W
DC Current	900 mA (300 mA for each port)

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

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

Applications

- cellular
- satellite distribution
- communication system

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	
f_L - f_U					Max.
750-1500	20	14	0.3	0.7	0.4

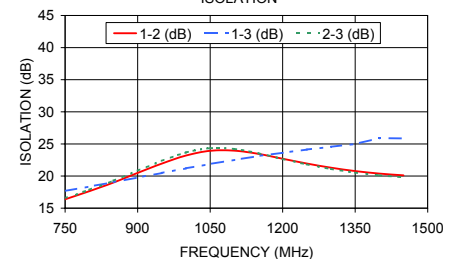
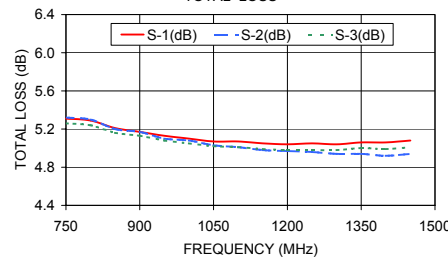
Typical Performance Data

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					
750.00	5.31	5.32	5.26	0.06	16.38	17.68	16.56	1.52	1.78	1.20	1.65	1.20
800.00	5.29	5.30	5.24	0.06	17.64	18.37	17.86	1.64	1.69	1.22	1.66	1.22
850.00	5.21	5.20	5.16	0.05	18.99	19.05	19.28	1.65	1.60	1.23	1.66	1.23
900.00	5.17	5.17	5.13	0.04	20.49	19.77	20.84	1.77	1.51	1.25	1.66	1.24
950.00	5.13	5.10	5.08	0.04	21.94	20.48	22.37	1.79	1.44	1.25	1.64	1.24
1000.00	5.10	5.08	5.05	0.05	23.20	21.20	23.67	1.91	1.36	1.25	1.62	1.24
1050.00	5.07	5.03	5.02	0.05	23.93	21.88	24.33	2.00	1.30	1.25	1.60	1.24
1100.00	5.07	5.01	5.01	0.06	23.96	22.51	24.21	2.08	1.24	1.25	1.57	1.24
1150.00	5.05	4.98	4.99	0.07	23.45	23.12	23.54	2.15	1.18	1.25	1.54	1.23
1200.00	5.04	4.97	4.98	0.07	22.70	23.63	22.66	2.25	1.13	1.25	1.52	1.23
1250.00	5.05	4.96	4.98	0.09	21.95	24.13	21.83	2.38	1.09	1.26	1.49	1.24
1300.00	5.04	4.94	4.98	0.11	21.30	24.56	21.10	2.49	1.06	1.26	1.47	1.24
1350.00	5.06	4.94	5.00	0.11	20.78	24.99	20.54	2.52	1.03	1.27	1.46	1.25
1400.00	5.06	4.92	4.99	0.13	20.38	25.90	20.11	2.63	1.02	1.28	1.45	1.26
1450.00	5.08	4.94	5.01	0.14	20.12	25.87	19.81	2.67	1.03	1.28	1.44	1.26
1500.00	5.08	4.92	5.02	0.16	19.90	26.38	19.57	2.82	1.03	1.28	1.43	1.26

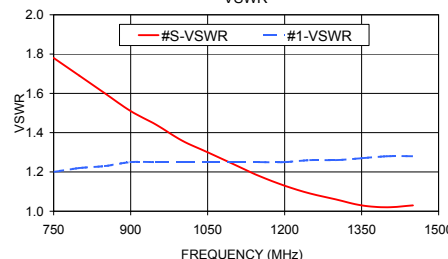
ZA3PD-1.5+ TOTAL LOSS

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

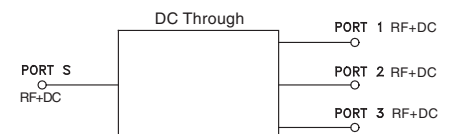
ZA3PD-1.5+ ISOLATION



ZA3PD-1.5+ VSWR



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.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/WCLStore/terms.jsp



3 Way-0° Power Splitter/Combiner

ZA3PD-1.5+

Typical Performance Data

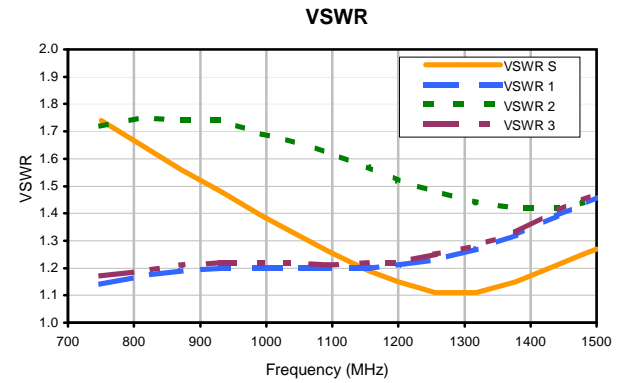
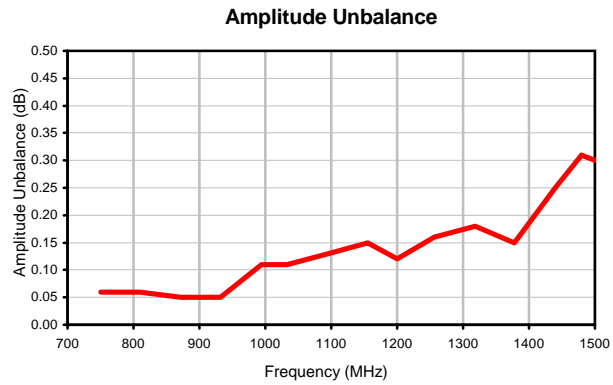
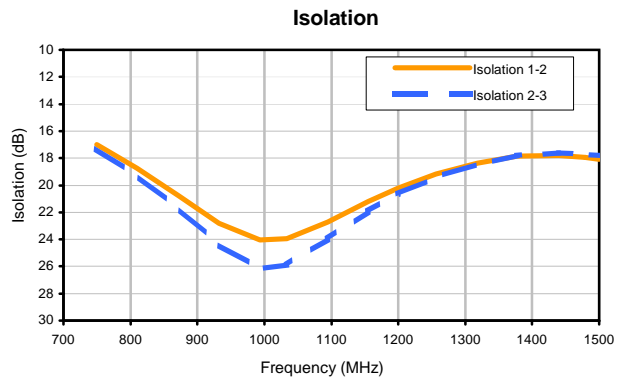
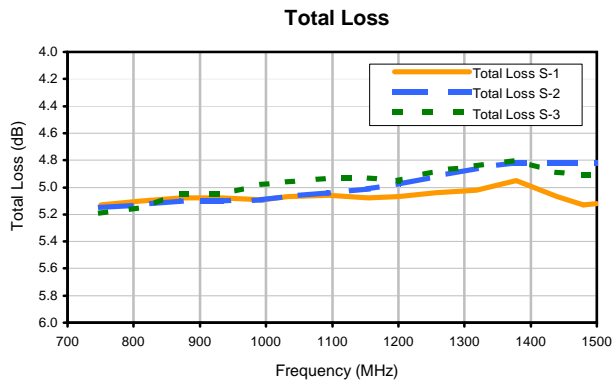
FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	ISOLATION (dB)		FREQ. (MHz)	VSWR (:1)			
	S-1	S-2	S-3		1-2	2-3		S	1	2	3
750.0	5.13	5.15	5.19	0.06	17.00	17.28	750.0	1.74	1.14	1.72	1.17
810.0	5.10	5.13	5.15	0.06	18.74	19.25	810.0	1.65	1.17	1.75	1.19
871.9	5.08	5.10	5.05	0.05	20.79	21.70	871.9	1.56	1.19	1.74	1.21
931.9	5.08	5.10	5.05	0.05	22.80	24.35	931.9	1.48	1.20	1.74	1.22
993.8	5.09	5.09	4.98	0.11	24.02	26.15	993.8	1.39	1.20	1.69	1.22
1033.1	5.07	5.07	4.96	0.11	23.94	25.91	1033.1	1.34	1.20	1.67	1.22
1095.0	5.06	5.04	4.93	0.13	22.71	23.97	1095.0	1.26	1.20	1.62	1.21
1155.0	5.08	5.01	4.93	0.15	21.22	21.93	1155.0	1.19	1.20	1.57	1.22
1200.0	5.07	4.98	4.95	0.12	20.20	20.65	1200.0	1.15	1.21	1.52	1.22
1256.3	5.04	4.92	4.88	0.16	19.16	19.42	1256.3	1.11	1.23	1.48	1.25
1318.1	5.02	4.86	4.84	0.18	18.37	18.46	1318.1	1.11	1.27	1.44	1.28
1378.1	4.95	4.82	4.80	0.15	17.83	17.82	1378.1	1.15	1.32	1.42	1.33
1440.0	5.07	4.82	4.89	0.25	17.81	17.63	1440.0	1.21	1.39	1.42	1.41
1479.4	5.13	4.82	4.91	0.31	17.95	17.70	1479.4	1.25	1.43	1.44	1.45
1500.0	5.12	4.82	4.91	0.30	18.07	17.78	1500.0	1.27	1.46	1.45	1.47

¹ Total Loss = Insertion Loss+ 4.8dB Splitter Loss

3 Way-0° Power Splitter/Combiner

ZA3PD-1.5+

Typical Performance Curves



REV. X2
ZA3PD-1.5+
100627
Page 1 of 1



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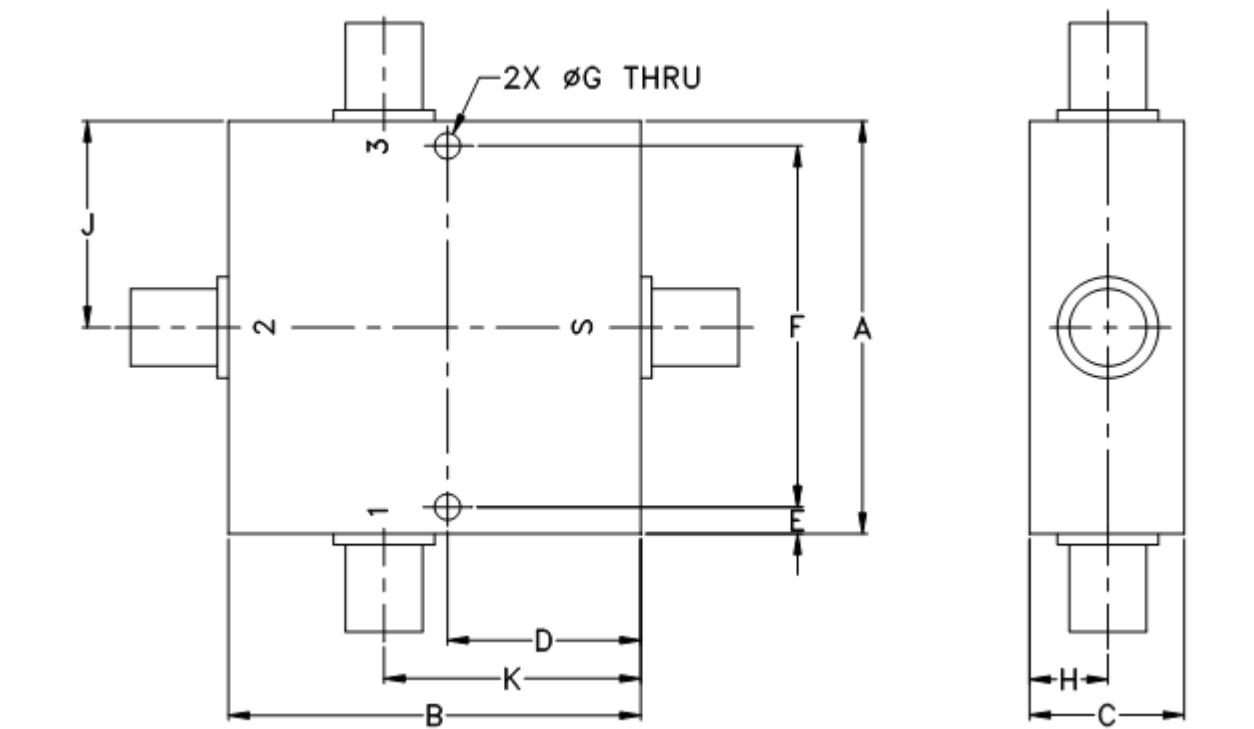


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Outline Dimensions

CC51



CASE#	A	B	C	D	E	F	G	H	J	K	WT. GRAMS
CC51	2.00 (50.80)	2.00 (50.80)	.75 (19.05)	.938 (23.83)	.13 (3.30)	1.750 (44.45)	.125 (3.17)	.38 (9.65)	1.00 (25.40)	1.25 (31.75)	200

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

1. Case material: Aluminum alloy.
2. Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
3. Refer to the individual model data sheet for the type of connectors available.



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RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I