

Power Splitter/Combiner

ZX10-2-183+

2 Way-0° 50Ω 1500 to 18000 MHz

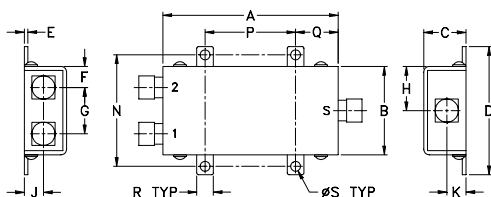
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (Inch/mm)

A	B	C	D	E	F	G	H	J
1.90	.96	.46	1.39	.04	.23	.50	.48	.21
48.26	24.38	11.68	35.31	1.02	5.84	12.70	12.19	5.33
K	L	M	N	P	Q	R	S	wt
.21	--	--	1.205	.980	.46	.18	.106	grams
5.33	--	--	30.61	24.89	11.68	4.57	2.69	50

Features

- very wideband, 1500 to 18000 MHz
- low insertion loss, 0.8 dB typ.
- good isolation, 22 dB typ.
- up to 5W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 2 deg. typ.
- rugged shielded case

Applications

- PCS/DCS
- defense & federal communications
- instrumentation



CASE STYLE: KB1450

Connectors	Model	Price	Qty.
SMA	ZX10-2-183-S+	\$98.95 ea.	(1-24)

+ 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 at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency		1500		18000	MHz
Insertion Loss (above theoretical 3.0 dB)	1500 - 8000	—	0.4	0.8	dB
	8000 - 13000	—	0.8	1.2	
	13000 - 17000	—	1.0	1.5	
	17000 - 18000	—	1.7	2.5	
Isolation	1500 - 8000	18	22	—	dB
	8000 - 13000	16	20	—	
	13000 - 17000	16	20	—	
	17000 - 18000	—	14	—	
Phase Unbalance	1500 - 8000	—	1.0	4	Degree
	8000 - 13000	—	2.0	5	
	13000 - 17000	—	4.0	9	
	17000 - 18000	—	4.0	9	
Amplitude Unbalance	1500 - 8000	—	0.1	0.3	dB
	8000 - 13000	—	0.15	0.4	
	13000 - 17000	—	0.2	0.6	
	17000 - 18000	—	0.4	0.9	
VSWR (Port S)	1500 - 8000	—	1.22	1.5	:1
	8000 - 13000	—	1.43	1.7	
	13000 - 17000	—	1.60	—	
	17000 - 18000	—	2.00	—	
VSWR (Port 1-2)	1500 - 8000	—	1.25	1.6	:1
	8000 - 13000	—	1.50	1.7	
	13000 - 17000	—	1.50	—	
	17000 - 18000	—	1.70	—	

Electrical Schematic



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine www.minicircuits.com Provides ACTUAL Data Instantly at [minicircuits.com](http://www.minicircuits.com)

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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/MCLStore/terms.jsp.

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Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1500	3.22	3.24	0.02	23.11	0.07	1.32	1.16	1.16
2000	3.17	3.18	0.01	26.34	0.09	1.10	1.14	1.13
4000	3.26	3.30	0.04	38.19	0.33	1.07	1.09	1.10
5000	3.33	3.36	0.03	20.51	0.31	1.20	1.12	1.11
6000	3.32	3.37	0.05	26.65	0.28	1.05	1.15	1.15
7000	3.43	3.51	0.08	22.66	0.59	1.29	1.28	1.31
8000	3.41	3.42	0.01	23.36	0.76	1.13	1.30	1.31
9000	3.62	3.67	0.05	36.23	0.34	1.43	1.47	1.46
10000	3.54	3.63	0.09	27.17	0.66	1.26	1.26	1.27
11000	3.61	3.68	0.06	20.42	0.88	1.20	1.12	1.13
12000	3.70	3.77	0.07	18.79	1.37	1.40	1.29	1.30
14000	3.87	3.95	0.08	19.02	1.33	1.47	1.21	1.23
15000	3.72	3.84	0.12	31.12	1.27	1.07	1.10	1.12
16000	3.96	4.08	0.12	23.79	1.25	1.58	1.40	1.44
18000	4.39	4.58	0.19	12.93	1.24	1.86	1.44	1.47

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

