Coaxial

Power Splitter/Combiner

ZX10-2-183+

2 Way-0° 50Ω 1500 to 18000 MHz

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.

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

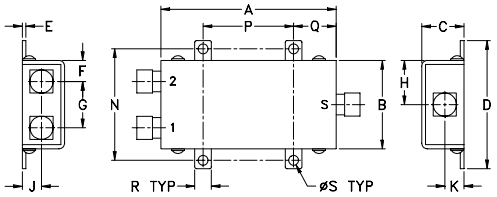
Features

- 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

Outline Drawing



Outline Dimensions (inch / mm)

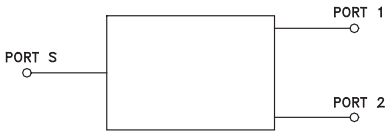
A	B	C	D	E	F	G	H	J
1.90	.96	.46	1.39	.04	.23	.50	.48	.21
48.26	24.38	11.68	35.31	1.02	5.84	12.70	12.19	5.33

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

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



REV. OR
M132644
ED-13665/3
ZX10-2-183+
HY/CP/AM
110902

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.