

Coaxial

Power Splitter/Combiner

ZX10R-14+

2 Way-0° Resistive 50Ω DC to 10000 MHz



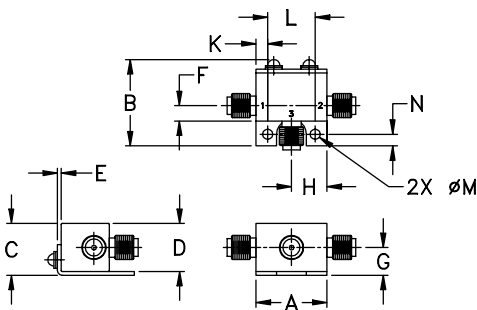
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.16W max.
Internal Dissipation	0.08W max.

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37

H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

Features

- very wideband, DC to 10000 MHz
- very good phase unbalance, 1 deg. typ.
- excellent amplitude unbalance, 0.02 dB typ.
- rugged shielded case

Applications

- laboratory
- test set-ups

CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX10R-14-S+	\$69.95 ea.	(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 T_{AMB} = 25°C

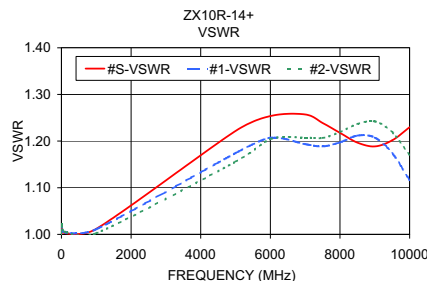
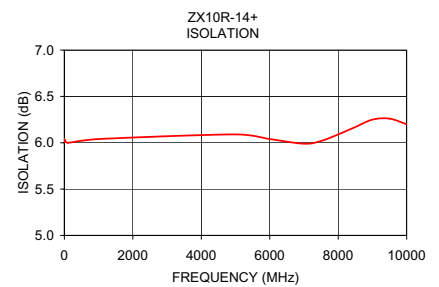
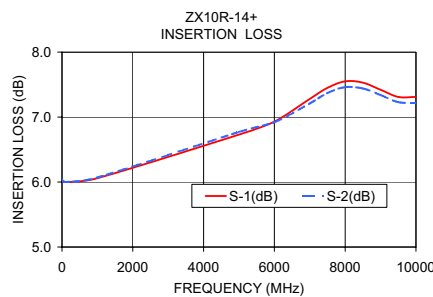
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 6.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f _L -f _U	Typ.	Typ.	Typ.	Typ.	Max.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.
DC-10000	6.0	6.0	6.0	0.1	0.2	0.5	1.0	1.5	1.8	1	3	6
										0.1	0.2	0.3

L = low range [DC-1000 MHz] M = mid range [1000 MHz to f_U/2] U = upper range [f_U/2 to f_U]

This is a resistive power divider to enable frequency coverage from dc to the highest rated frequency. Since resistive power divider do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits' ZFL series is recommended when high isolation is required. Matched power rating 0.16W, internal load dissipation 0.08W.

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.03	6.03	6.02	0.01	6.04	0.09	1.00	1.00	1.00
0.10	6.01	6.01	0.00	6.02	0.01	1.00	1.00	1.00
1.00	6.00	6.01	0.01	6.01	0.00	1.00	1.00	1.00
10.00	6.02	6.02	0.00	6.03	0.14	1.02	1.02	1.02
100.00	6.00	6.00	0.00	6.00	0.06	1.00	1.00	1.01
1000.00	6.06	6.07	0.01	6.04	0.44	1.01	1.01	1.00
5000.00	6.73	6.77	0.04	6.09	1.20	1.22	1.17	1.16
6000.00	6.93	6.92	0.01	6.04	1.34	1.25	1.21	1.20
7000.00	7.28	7.21	0.06	5.99	1.78	1.26	1.19	1.21
7500.00	7.45	7.37	0.08	6.02	2.08	1.24	1.19	1.21
8000.00	7.55	7.46	0.09	6.09	2.39	1.22	1.20	1.22
8500.00	7.53	7.44	0.09	6.17	2.70	1.20	1.21	1.24
9000.00	7.42	7.34	0.08	6.25	2.91	1.19	1.21	1.24
9500.00	7.31	7.23	0.08	6.26	3.06	1.20	1.17	1.22
10000.00	7.31	7.22	0.09	6.20	3.18	1.23	1.12	1.17



electrical schematic



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