Power Splitter/Combiner

ZX10R-14+

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

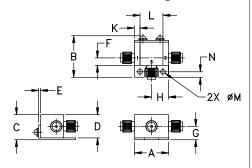
Maximum Ratings

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

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch mm)

G	F	Е	D	С	В	Α
.29	.16	.04	.50	.54	.90	.74
7.37	4.06	1.02	12.70	13.72	22.86	18.80
wt	N	M	L	K	J	Н
grams	.122	.106	.496	.122		.37
20.0	3.10	2.69	12.60	3.10		9.40

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							
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

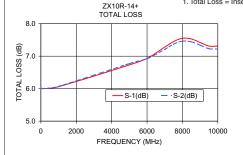
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 6.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Тур.	Тур.	Тур.	Тур. Мах.	Тур. Мах.	Тур. Мах.	Max.	Max.	Max.	Max.	Max.	Max.
DC-10000	6.0	6.0	6.0	0.1 0.2	0.5 1.0	1.5 1.8	1	3	6	0.1	0.2	0.3

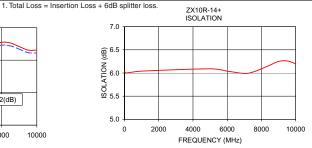
L = low range [DC-1000 MHz] $M = mid range [1000 MHz to f_U/2]$ U= upper range $[f_U/2 to f_U]$

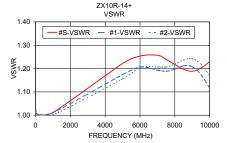
This is a resistive power divider to enable frequency coverage from dc to the highest rated frequency. Since resistive power divider do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits' ZFL series is recommended when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

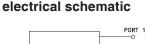
Typical Performance Data

Frequency (MHz)	Total Loss¹ (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











Mini-Circuits

For detailed performance specs & shopping online see web site

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