

# Power Splitter/Combiner

## ZX10-2-12+

2 Way-0° 50Ω 2 to 1200 MHz



CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX10-2-12-S+	\$24.95	(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	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation (as a combiner)	0.125W max.

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

### Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

### Features

- low insertion loss, 0.5 dB typ.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- protected under U.S. Patent 6,790,049 & 6,963,255

### Applications

- cellular
- VHF/UHF receivers/transmitters
- radio
- defense

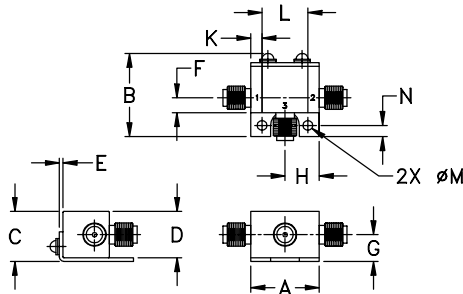
### Electrical Specifications (T<sub>AMB</sub> = 25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
2-1200	21	16	0.5	1.5	3.0	0.5
2-20	29	21	0.3	0.7	3.0	0.5
20-600	25	18	0.3	0.8	2.0	0.4
600-1000	21	18	0.5	1.0	2.0	0.5

### Typical Performance Data

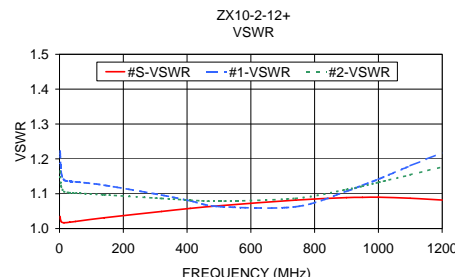
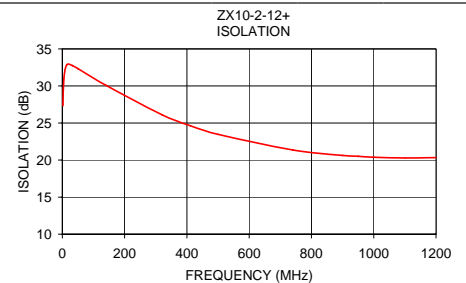
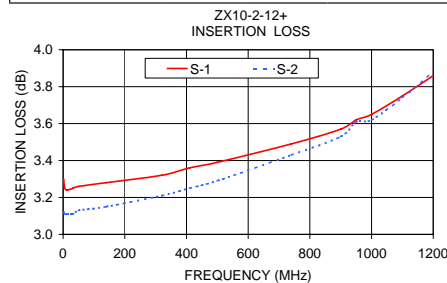
Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
2.00	3.30	3.12	0.18	27.33	0.75	1.03	1.22	1.16
5.00	3.25	3.11	0.14	31.03	0.34	1.02	1.16	1.12
14.00	3.24	3.11	0.13	32.84	0.11	1.02	1.14	1.11
32.00	3.25	3.11	0.13	32.75	0.02	1.02	1.14	1.10
50.00	3.26	3.13	0.13	32.34	0.01	1.02	1.13	1.10
140.00	3.28	3.15	0.13	30.09	0.17	1.03	1.12	1.10
320.00	3.32	3.21	0.12	26.11	0.34	1.05	1.10	1.09
410.00	3.36	3.25	0.11	24.65	0.39	1.06	1.08	1.08
500.00	3.39	3.29	0.10	23.47	0.48	1.07	1.06	1.08
740.00	3.49	3.43	0.06	21.36	0.43	1.08	1.06	1.09
900.00	3.57	3.53	0.04	20.62	0.32	1.09	1.11	1.11
950.00	3.62	3.61	0.01	20.51	0.29	1.09	1.12	1.12
1000.00	3.65	3.62	0.03	20.38	0.27	1.09	1.14	1.13
1100.00	3.75	3.74	0.01	20.29	0.07	1.09	1.18	1.15
1200.00	3.86	3.88	0.02	20.33	0.02	1.08	1.22	1.18

### Outline Drawing

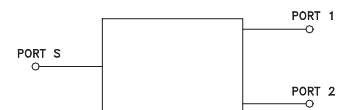


### Outline Dimensions (inch)

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



### electrical schematic



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