

# Power Splitter/Combiner

## ZX10-2-126-S+

2 Way-0° 50Ω 7400 to 12600 MHz

### Maximum Ratings

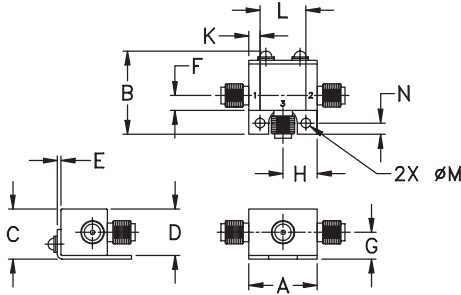
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1.0W max.
Internal Dissipation (as a combiner)	0.1W max.
DC Current	1.0 A (500mA for each port)

Permanent damage may occur if any of these limits are

### 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

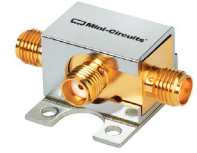
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

### Features

- low insertion loss, 0.3 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

- SHF
- defense
- cable tv relay
- DECT
- DBS



Generic photo used for illustration purposes only

CASE STYLE: FL905

Connectors Model  
SMA ZX10-2-126-S+

### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

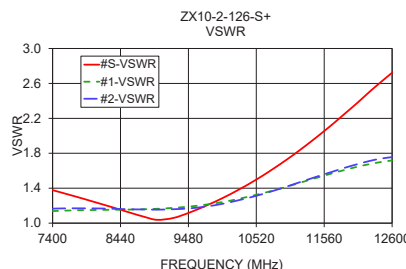
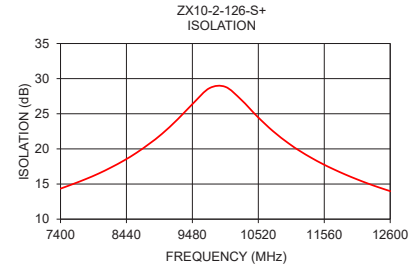
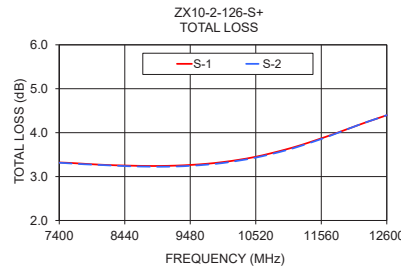
### Electrical Specifications (T<sub>AMB</sub>=25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f <sub>L</sub> -f <sub>H</sub>	Typ. Min.	Max.	Max.	Max.
7400-12600	23 10	0.6 1.7	10.0	0.5
9000-11000	23 16	0.3 0.7	7.0	0.3

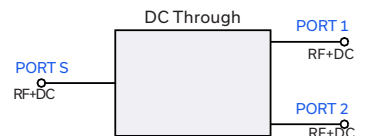
### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
7400	3.32	3.31	0.01	14.34	1.51	1.38	1.14	1.17
7800	3.29	3.28	0.01	15.71	1.67	1.29	1.15	1.17
8200	3.26	3.25	0.01	17.37	1.75	1.21	1.15	1.17
8600	3.25	3.23	0.01	19.45	1.84	1.12	1.16	1.16
9000	3.24	3.22	0.02	22.14	1.95	1.04	1.16	1.15
9400	3.27	3.25	0.02	26.56	2.09	1.12	1.19	1.17
9800	3.29	3.27	0.02	28.65	2.17	1.20	1.21	1.19
10200	3.38	3.36	0.02	27.00	2.31	1.38	1.28	1.26
10600	3.44	3.43	0.02	24.65	2.37	1.49	1.32	1.31
11000	3.62	3.60	0.02	20.77	2.52	1.73	1.42	1.42
11400	3.77	3.76	0.02	18.73	2.64	1.93	1.50	1.51
11800	3.94	3.93	0.01	17.09	2.76	2.15	1.58	1.60
12200	4.22	4.22	0.00	15.09	2.88	2.50	1.67	1.71
12600	4.40	4.40	0.00	13.99	2.98	2.72	1.72	1.76

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



### electrical schematic



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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