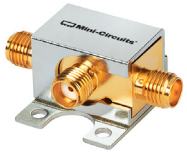
DC Pass

Power Splitter/Combiner

ZX10-2-126-S+

2 Way-0° 50Ω 7400 to 12600 MHz



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

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

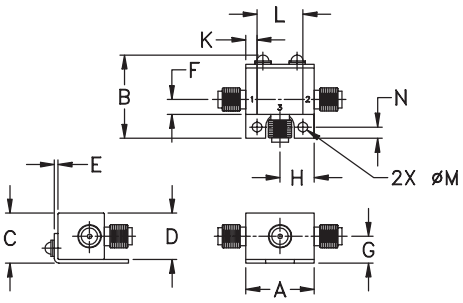
Features

- 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

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

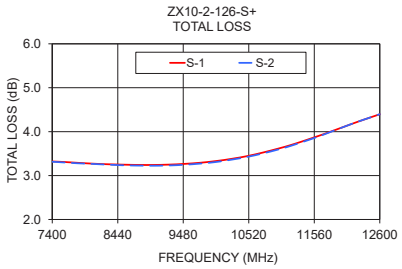
Electrical Specifications (T_{AMB}=25°C)

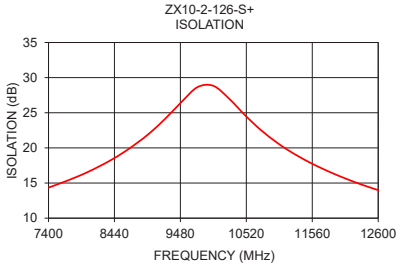
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Max.		Max.	Max.
7400-12600	**23**	**10**	**0.6**	**1.7**	**10.0**	**0.5**
9000-11000	23	16	0.3	0.7	7.0	0.3

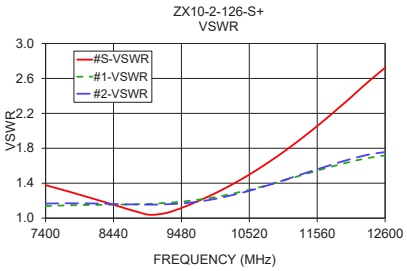
Typical Performance Data

Frequency (MHz)	Total Loss[1] (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

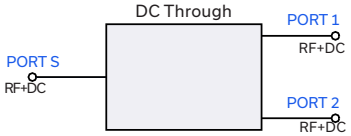
1. Total Loss = Insertion Loss + 3dB splitter loss.







electrical schematic



Notes

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B. 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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