

Power Splitter/Combiner

ZX10-4-11-S+

4 Way-0° 50Ω 800 to 1125 MHz

Maximum Ratings

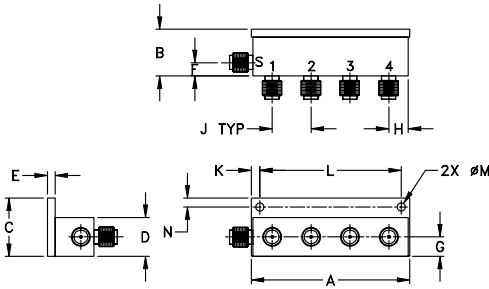
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	2.5W max.*
Power Input (as a combiner)	0.125W max.

*maximum VSWR at output 1.2:1
Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
2.04	.60	.75	.50	.10	.17	.25	.25
51.82	15.24	19.05	12.70	2.54	4.32	6.35	6.35
J	K	L	M	N			wt
.50	.11	1.820	.106	.12			grams
12.70	2.79	46.23	2.69	3.05			60.0

Features

- low insertion loss, 0.6 dB typ.
- high isolation, 20 dB typ.
- rigid unibody construction
- gold plated connectors; nickel plated body
- low cost
- small size
- protected by US patent 6,790,049

Applications

- cellular/ISM
- antenna arrays
- signal distribution
- test bench

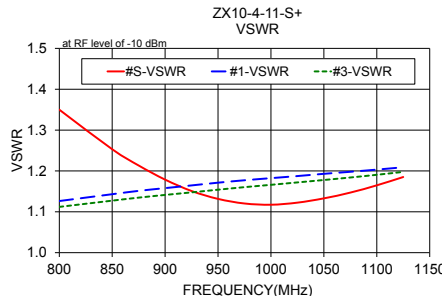
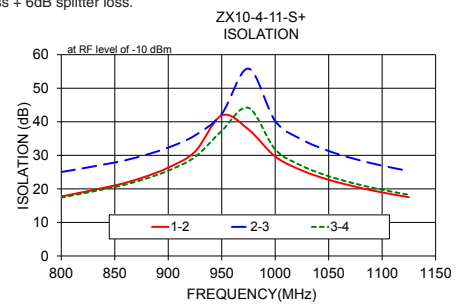
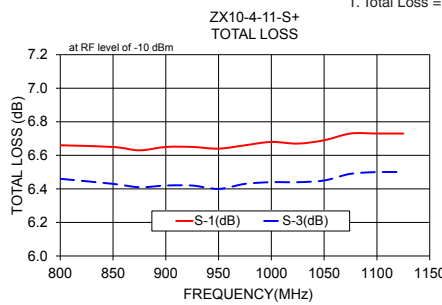
Electrical Specifications (T_{AMB}=25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Deg.)	AMPLITUDE UNBALANCE (dB)	INPUT VSWR (:1)	OUTPUT VSWR (:1)
	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Typ.
f _L -f _H								
800-1125	20	15	0.6	1.3	3.0	0.7	1.2	1.2
875-1050	24	18	0.6	1.0	3.0	0.7	1.2	1.2

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
800.00	6.66	6.63	6.46	6.46	0.21	17.74	25.02	17.42	0.75	1.35	1.13	1.14	1.11	1.14
850.00	6.65	6.62	6.43	6.41	0.24	21.03	27.87	20.56	0.94	1.25	1.14	1.16	1.13	1.15
875.00	6.63	6.61	6.41	6.38	0.26	23.27	29.78	22.65	1.05	1.21	1.15	1.17	1.13	1.16
900.00	6.65	6.64	6.42	6.38	0.27	26.35	32.31	25.44	1.16	1.18	1.16	1.18	1.14	1.16
925.00	6.65	6.64	6.42	6.37	0.28	31.09	35.93	29.50	1.25	1.15	1.16	1.19	1.15	1.17
950.00	6.64	6.63	6.40	6.35	0.29	41.92	42.34	37.29	1.36	1.13	1.17	1.20	1.15	1.18
975.00	6.66	6.67	6.43	6.36	0.31	37.73	55.86	44.16	1.48	1.12	1.18	1.20	1.16	1.18
1000.00	6.68	6.70	6.44	6.36	0.33	29.65	40.26	31.78	1.59	1.12	1.18	1.21	1.17	1.19
1025.00	6.67	6.69	6.44	6.35	0.35	25.50	34.70	26.87	1.68	1.12	1.19	1.22	1.17	1.19
1050.00	6.69	6.72	6.45	6.35	0.37	22.72	31.30	23.78	1.79	1.13	1.19	1.22	1.18	1.20
1075.00	6.73	6.77	6.49	6.38	0.39	20.66	28.87	21.54	1.90	1.15	1.20	1.23	1.18	1.21
1100.00	6.73	6.78	6.50	6.37	0.40	18.95	26.93	19.74	1.97	1.16	1.20	1.24	1.19	1.21
1125.00	6.73	6.79	6.50	6.36	0.42	17.53	25.33	18.25	2.08	1.19	1.21	1.24	1.20	1.22

1. Total Loss = Insertion Loss + 6dB 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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