

Power Splitter/Combiner

4 Way-0° 50Ω

1100 to 1450 MHz

ZX10-4-14-S+

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.

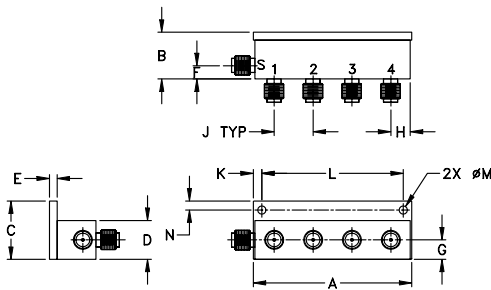
*maximum VSWR at output 1.2:1

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, 0.8 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

- satellite distribution
- antenna arrays
- signal distribution
- test bench

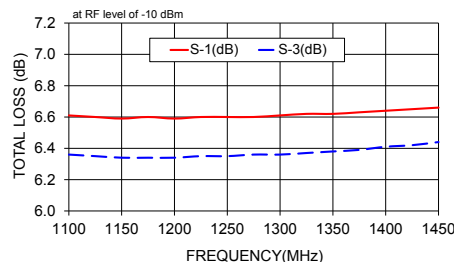
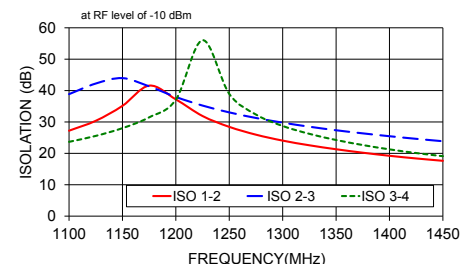
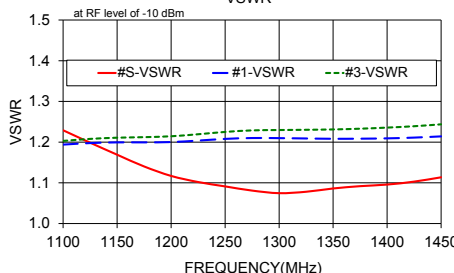
Electrical Specifications (T_{AMB}=25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 6 dB	PHASE UNBALANCE (Deg.)	AMPLITUDE UNBALANCE (dB)	INPUT VSWR (:1)	OUTPUT VSWR (:1)
f _L -f _U	Typ. Min.	Typ. Max.	Max.	Max.	Typ.	Typ.
1100-1450	20 15	0.8 1.3	7.0	0.8	1.3	1.3

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					
1100.00	6.61	6.61	6.36	6.30	0.31	27.22	38.86	23.67	1.10	1.23	1.19	1.24	1.20
1125.00	6.60	6.62	6.35	6.28	0.34	30.37	42.24	25.56	1.22	1.20	1.20	1.25	1.21
1150.00	6.59	6.63	6.34	6.27	0.35	35.13	43.96	28.03	1.34	1.17	1.20	1.25	1.21
1175.00	6.60	6.64	6.34	6.26	0.37	41.57	41.33	31.47	1.44	1.14	1.20	1.25	1.21
1200.00	6.59	6.65	6.34	6.25	0.40	37.19	37.96	37.11	1.55	1.12	1.20	1.25	1.21
1225.00	6.60	6.66	6.35	6.25	0.41	31.89	35.22	56.05	1.64	1.10	1.20	1.26	1.22
1250.00	6.60	6.68	6.35	6.24	0.43	28.44	33.05	38.94	1.74	1.09	1.21	1.26	1.23
1275.00	6.60	6.69	6.36	6.24	0.45	25.95	31.27	32.36	1.80	1.08	1.21	1.26	1.23
1300.00	6.61	6.71	6.36	6.24	0.47	24.06	29.78	28.72	1.84	1.07	1.21	1.27	1.23
1325.00	6.62	6.73	6.37	6.24	0.49	22.57	28.49	26.22	1.92	1.08	1.21	1.27	1.23
1350.00	6.62	6.74	6.38	6.23	0.51	21.31	27.36	24.26	1.98	1.09	1.21	1.28	1.23
1375.00	6.63	6.76	6.39	6.24	0.52	20.21	26.37	22.65	2.03	1.09	1.21	1.28	1.23
1400.00	6.64	6.78	6.41	6.24	0.54	19.23	25.46	21.27	2.10	1.10	1.21	1.28	1.24
1425.00	6.65	6.79	6.42	6.24	0.55	18.38	24.63	20.10	2.17	1.10	1.21	1.27	1.24
1450.00	6.66	6.80	6.44	6.23	0.57	17.63	23.86	19.10	2.28	1.11	1.21	1.27	1.24

1. Total Loss = Insertion Loss + 6dB splitter loss.

ZX10-4-14-S+
TOTAL LOSSZX10-4-14-S+
ISOLATIONZX10-4-14-S+
VSWR

electrical schematic



Notes

- A. 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.
 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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