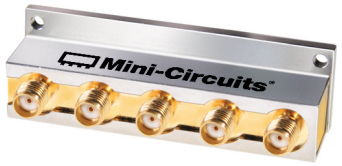
Coaxial

Power Splitter/Combiner

ZX10-4A-14-S+

4 Way-0° 50Ω 1100 to 1450 MHz



CASE STYLE: GY1065

Connectors	Model
SMA	ZX10-4A-14-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)	2.5W max.
Internal Dissipation	0.125W max.

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

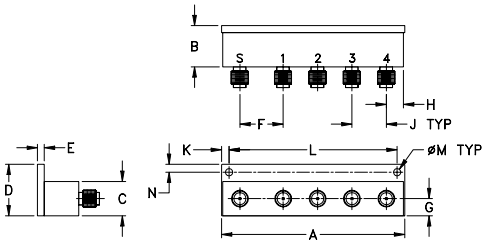
Features

- low insertion loss, 0.6 dB typ.
- high isolation, 25 dB typ.
- rigid unibody construction
- convenient for panel mount applications
- low cost
- very small size
- protected by US patent 6,790,049

Applications

- antenna arrays
- signal distribution
- test bench

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
2.67	.60	.50	.75	.10	.63	.25	.25
67.82	15.24	12.70	19.05	2.54	16.00	6.35	6.35

J	K	L	M	N	wt.
.50	.11	2.445	.106	.12	grams
12.70	2.79	62.10	2.69	3.05	65.0

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

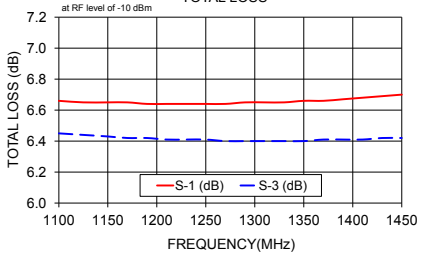
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Deg.)	AMPLITUDE UNBALANCE (dB)	INPUT VSWR (:1)	OUTPUT VSWR (:1)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Typ.
1100-1450	25	16	0.6	1.0	4	0.7	1.25	1.2

Typical Performance Data

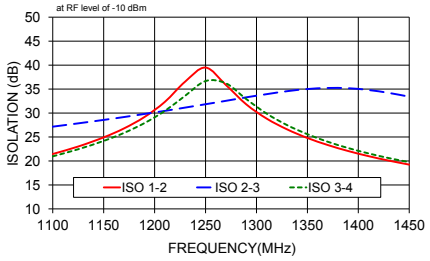
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
1100.00	6.66	6.67	6.45	6.43	0.24	21.46	27.16	20.97	1.75	1.39	1.16	1.19	1.20	1.24
1125.00	6.65	6.67	6.44	6.41	0.26	23.02	27.85	22.45	1.88	1.37	1.16	1.19	1.20	1.24
1150.00	6.65	6.67	6.43	6.40	0.28	24.93	28.57	24.19	2.02	1.34	1.15	1.19	1.20	1.24
1190.00	6.64	6.68	6.42	6.37	0.31	29.17	29.81	27.90	2.19	1.30	1.15	1.19	1.20	1.24
1230.00	6.64	6.69	6.41	6.35	0.34	36.56	31.14	33.61	2.39	1.26	1.15	1.19	1.19	1.23
1250.00	6.64	6.70	6.41	6.34	0.36	39.49	31.84	36.67	2.47	1.24	1.14	1.19	1.19	1.23
1270.00	6.64	6.70	6.40	6.33	0.37	35.85	32.55	36.20	2.55	1.22	1.14	1.18	1.19	1.23
1290.00	6.65	6.71	6.40	6.32	0.39	31.81	33.28	32.91	2.64	1.21	1.13	1.18	1.19	1.23
1310.00	6.65	6.71	6.40	6.31	0.40	28.84	33.94	29.88	2.73	1.19	1.13	1.18	1.19	1.23
1330.00	6.65	6.72	6.40	6.31	0.41	26.60	34.56	27.49	2.81	1.18	1.13	1.18	1.19	1.22
1350.00	6.66	6.73	6.40	6.30	0.43	24.80	35.01	25.59	2.86	1.16	1.12	1.17	1.18	1.22
1370.00	6.66	6.74	6.41	6.30	0.44	23.33	35.23	24.01	2.95	1.15	1.12	1.16	1.18	1.22
1390.00	6.67	6.75	6.41	6.29	0.46	22.08	35.18	22.70	3.02	1.14	1.12	1.16	1.18	1.22
1430.00	6.69	6.77	6.42	6.28	0.49	20.07	34.20	20.60	3.12	1.12	1.12	1.17	1.18	1.22
1450.00	6.70	6.78	6.42	6.28	0.50	19.24	33.41	19.75	3.17	1.11	1.11	1.16	1.18	1.22

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

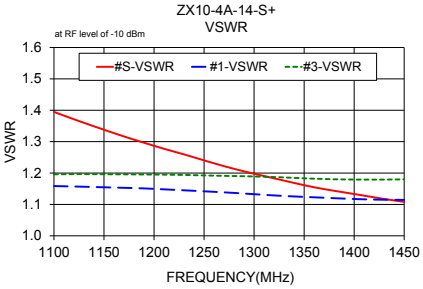
ZX10-4A-14-S+
TOTAL LOSS



ZX10-4A-14-S+
ISOLATION



ZX10-4A-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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