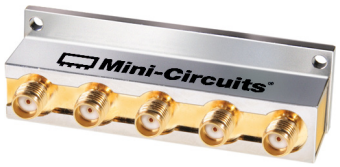
Coaxial

Power Splitter/Combiner

ZX10-4A-19+

4 Way-0° 50Ω 1425 to 1900 MHz



CASE STYLE: GY1065

Connectors	Model
SMA	ZX10-4A-19-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

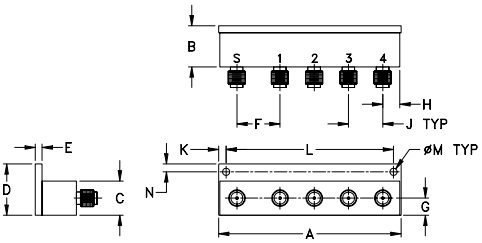
Features

- low insertion loss, 0.75 dB typ.
- high isolation, 20 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)

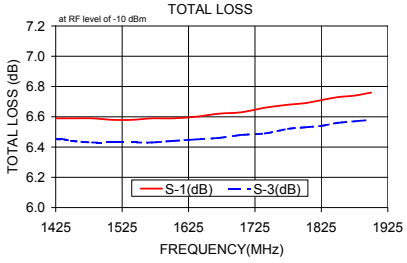
FREQ. RANGE (MHz)	Total Loss[1] (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Deg.)	AMPLITUDE UNBALANCE (dB)	INPUT VSWR (:1)	OUTPUT VSWR (:1)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Typ.
1425-1900	**20**	**16**	**0.75**	**1.1**	**5.0**	**0.7**	**1.2**	**1.2**
1450-1775	24	20	0.75	1.0	4.0	0.7	1.2	1.2

Typical Performance Data

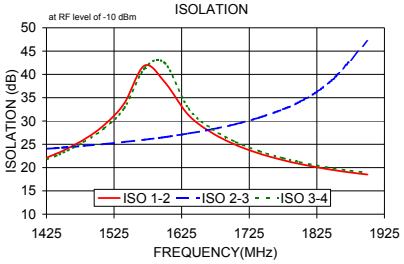
Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
1425.00	6.59	6.67	6.45	6.37	0.30	22.11	24.04	21.73	1.45	1.28	1.12	1.14	1.13	1.13
1437.50	6.59	6.67	6.45	6.36	0.31	22.85	24.17	22.44	1.45	1.26	1.11	1.14	1.12	1.12
1450.00	6.59	6.67	6.44	6.35	0.32	23.66	24.30	23.22	1.45	1.25	1.11	1.15	1.12	1.12
1480.00	6.59	6.68	6.43	6.33	0.34	25.97	24.67	25.45	1.45	1.21	1.10	1.16	1.12	1.12
1510.00	6.58	6.68	6.43	6.32	0.36	29.08	25.05	28.39	1.44	1.18	1.10	1.12	1.11	1.11
1540.00	6.58	6.69	6.43	6.31	0.37	33.77	25.51	32.77	1.44	1.15	1.09	1.13	1.10	1.10
1570.00	6.59	6.70	6.43	6.31	0.39	41.87	25.99	41.26	1.44	1.13	1.09	1.14	1.10	1.10
1600.00	6.59	6.71	6.44	6.30	0.40	38.34	26.54	42.45	1.43	1.13	1.09	1.11	1.10	1.10
1635.00	6.60	6.72	6.45	6.30	0.42	31.30	27.31	32.71	1.49	1.12	1.09	1.13	1.10	1.10
1670.00	6.62	6.74	6.46	6.30	0.44	27.44	28.23	28.28	1.64	1.14	1.10	1.13	1.11	1.11
1705.00	6.63	6.76	6.48	6.31	0.45	24.88	29.33	25.50	1.78	1.15	1.11	1.12	1.12	1.12
1740.00	6.66	6.77	6.49	6.31	0.47	23.02	30.73	23.51	1.97	1.17	1.13	1.16	1.13	1.13
1775.00	6.68	6.80	6.52	6.32	0.48	21.59	32.51	22.03	2.10	1.20	1.15	1.14	1.15	1.15
1800.00	6.69	6.81	6.53	6.32	0.49	20.77	34.15	21.18	2.21	1.20	1.16	1.15	1.17	1.17
1825.00	6.71	6.82	6.54	6.32	0.50	20.07	36.26	20.46	2.35	1.21	1.18	1.19	1.18	1.18
1850.00	6.73	6.84	6.56	6.33	0.51	19.47	39.11	19.85	2.47	1.23	1.19	1.19	1.20	1.20
1875.00	6.74	6.85	6.57	6.33	0.52	18.95	43.10	19.34	2.55	1.23	1.21	1.19	1.22	1.22
1900.00	6.76	6.86	6.58	6.33	0.53	18.51	47.13	18.91	2.69	1.23	1.23	1.22	1.23	1.23

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

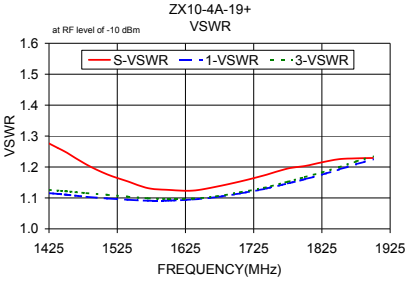
ZX10-4A-19+
TOTAL LOSS



ZX10-4A-19+
ISOLATION



ZX10-4A-19+
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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