Coaxial

Power Splitter/Combiner

ZX10-4-19+
ZX10-4-19

4 Way-0° 50Ω 1425 to 1900 MHz

CASE STYLE: GR1026

Connectors	Model	Price	Qty.
SMA	ZX10-4-19-S(+)	$38.95 ea.	(1-24)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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.*
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

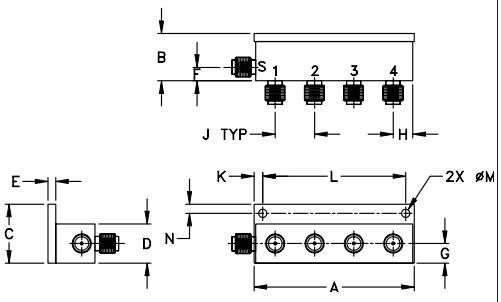
Features

- low insertion loss, 0.75 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

- GPS
- antenna arrays
- signal distribution
- test bench

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

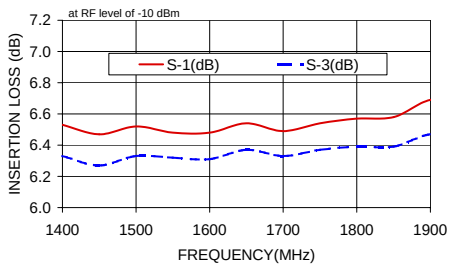
Electrical Specifications (T_{AMB}=25°C)

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.
1425-1900	**20**	**16**	**0.75**	**1.0**	**6.0**	**0.9**	**1.2**	**1.2**
1450-1775	24	20	0.75	1.0	5.0	0.8	1.2	1.2

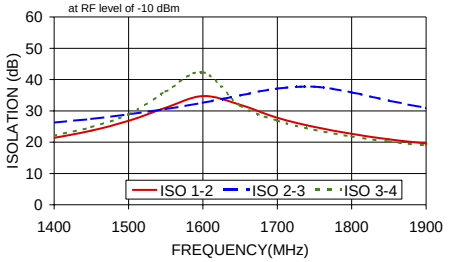
Typical Performance Data

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						
1400.00	6.53	6.64	6.33	6.26	0.38	21.38	26.25	22.07	1.28	1.20	1.16	1.17	1.16	1.18
1450.00	6.47	6.59	6.27	6.18	0.41	23.68	27.43	24.80	1.31	1.16	1.16	1.18	1.16	1.18
1500.00	6.52	6.66	6.33	6.22	0.44	26.85	28.92	28.90	1.47	1.13	1.17	1.18	1.16	1.18
1550.00	6.48	6.66	6.32	6.18	0.47	31.00	30.58	36.18	1.78	1.10	1.17	1.19	1.16	1.18
1600.00	6.48	6.64	6.31	6.15	0.49	34.74	32.57	42.35	2.00	1.08	1.18	1.19	1.16	1.18
1650.00	6.54	6.72	6.37	6.20	0.52	31.97	34.96	31.70	2.17	1.07	1.18	1.20	1.17	1.18
1700.00	6.49	6.68	6.33	6.13	0.55	27.80	37.13	26.89	2.59	1.06	1.19	1.20	1.18	1.19
1750.00	6.54	6.71	6.37	6.14	0.57	24.84	37.71	23.95	2.80	1.06	1.20	1.21	1.19	1.19
1800.00	6.57	6.74	6.39	6.14	0.60	22.65	35.87	21.84	3.08	1.06	1.22	1.22	1.20	1.20
1850.00	6.58	6.71	6.39	6.10	0.62	20.89	33.26	20.18	3.46	1.05	1.24	1.23	1.22	1.21
1900.00	6.69	6.79	6.47	6.16	0.64	19.59	30.95	18.94	3.58	1.05	1.26	1.24	1.24	1.23
1950.00	6.67	6.77	6.44	6.11	0.66	18.39	28.85	17.81	4.01	1.04	1.29	1.26	1.27	1.25
1975.00	6.75	6.79	6.50	6.13	0.66	17.91	27.99	17.36	4.09	1.03	1.30	1.27	1.28	1.25
2000.00	6.71	6.73	6.44	6.07	0.66	17.37	27.07	16.85	4.45	1.03	1.31	1.28	1.29	1.26

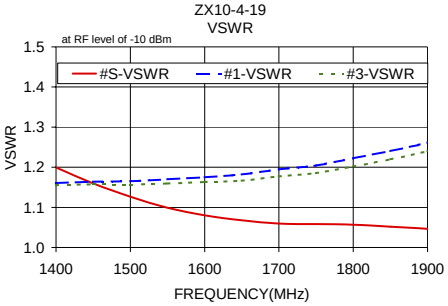
ZX10-4-19
INSERTION LOSS



ZX10-4-19
ISOLATION



ZX10-4-19
VSWR



electrical schematic

REV. A
M98898
ZX10-4-19
ED-10988/2
AD/RC/CP
090827