Coaxial

Power Splitter/Combiner

ZX10-4A-11+

4 Way-0° 50Ω 800 to 1125 MHz

CASE STYLE: GY1065

Connectors	Model	Price	Qty.
SMA	ZX10-4A-11-S+	$38.95 ea.	(1-24)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

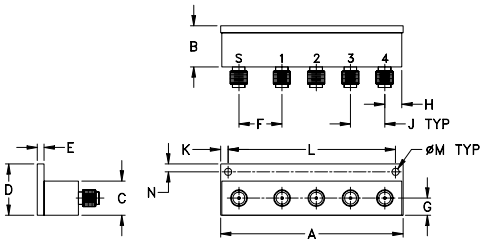
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	2.5W max.
Internal Dissipation	0.125W max.

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

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

Features

- low insertion loss, 0.6 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

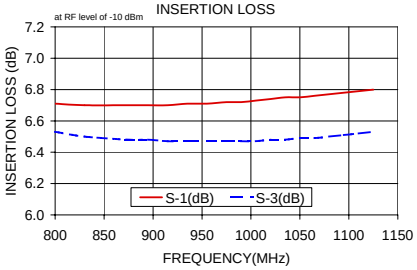
Electrical Specifications (T_{AMB}=25°C)

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.
800-1125	20	14	0.6	1.1	4.0	0.7	1.2	1.2
875-1050	24	18	0.6	1.0	4.0	0.6	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						
800.00	6.71	6.70	6.53	6.55	0.19	16.69	25.18	16.58	1.21	1.39	1.12	1.12	1.13	1.15
830.00	6.70	6.69	6.50	6.52	0.20	18.22	26.62	18.12	1.17	1.34	1.13	1.13	1.14	1.16
875.00	6.70	6.70	6.48	6.49	0.22	21.25	29.33	21.16	1.09	1.27	1.14	1.15	1.16	1.18
915.00	6.70	6.71	6.47	6.46	0.25	25.40	32.57	25.26	1.17	1.22	1.15	1.16	1.17	1.19
935.00	6.71	6.71	6.47	6.45	0.27	28.62	34.57	28.44	1.20	1.20	1.15	1.16	1.17	1.19
955.00	6.71	6.73	6.47	6.44	0.29	33.76	36.72	33.55	1.24	1.18	1.16	1.17	1.17	1.19
975.00	6.72	6.74	6.47	6.43	0.31	45.82	38.22	47.46	1.27	1.17	1.16	1.18	1.18	1.20
1005.00	6.73	6.76	6.47	6.42	0.34	32.83	37.11	33.30	1.29	1.15	1.16	1.18	1.18	1.20
1020.00	6.74	6.77	6.48	6.42	0.35	28.96	35.53	29.27	1.33	1.14	1.17	1.18	1.18	1.20
1035.00	6.75	6.79	6.48	6.42	0.37	26.28	33.89	26.49	1.32	1.14	1.17	1.18	1.19	1.20
1050.00	6.75	6.80	6.49	6.42	0.38	24.23	32.37	24.40	1.34	1.13	1.17	1.19	1.19	1.21
1065.00	6.76	6.81	6.49	6.42	0.39	22.57	30.98	22.73	1.37	1.13	1.17	1.19	1.19	1.21
1080.00	6.77	6.82	6.50	6.41	0.41	21.17	29.77	21.33	1.42	1.13	1.17	1.19	1.19	1.21
1095.00	6.78	6.84	6.51	6.41	0.42	19.97	28.67	20.13	1.48	1.13	1.17	1.19	1.19	1.21
1125.00	6.80	6.86	6.53	6.42	0.45	17.99	26.78	18.14	1.55	1.13	1.17	1.20	1.19	1.21

ZX10-4A-11+
INSERTION LOSS



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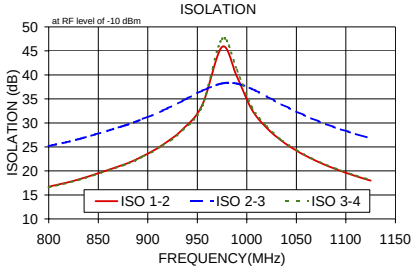
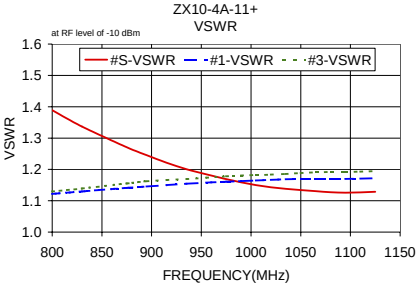
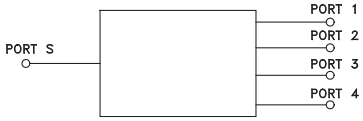
ISOLATION



ZX10-4A-11+
VSWR



electrical schematic



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