SMA Connectorized

Power Splitter/Combiner

ZX10Q-2-25-S+
ZX10Q-2-25-S

2 Way-90° 50Ω 1350 to 2450 MHz

Generic photo used for illustration purposes only

CASE STYLE: GW1052

Connectors	Model
SMA	ZX10Q-2-25-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)	20W* max.

* Derate linearly to 7W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

INPUT PORT	1
PORT 1 (+90°)	2
PORT 2 (0°)	3
50 OHM TERM EXTERNAL**	4

Features

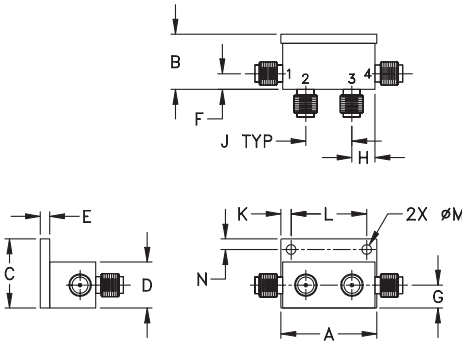
- low insertion loss, 0.4 dB typ.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- protected by U.S Patent 6,790,049

Applications

- GPS
- PCS/DCS
- UMTS
- balanced amplifiers
- modulators

***** Recommended external termination Mini-Circuits Part. No. ANNE-50L***

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
1.04	.60	.75	.50	.10	.17	.25
26.42	15.24	19.05	12.70	2.54	4.32	6.35
H	**J**	**K**	**L**	**M**	**N**	**wt.**
.25	.50	.11	.820	.106	.12	grams
6.35	12.70	2.79	20.83	2.69	3.05	21.0

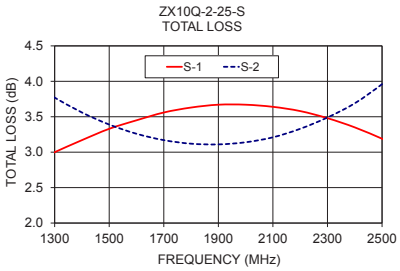
Electrical Specifications (T_{AMB}=25°C)

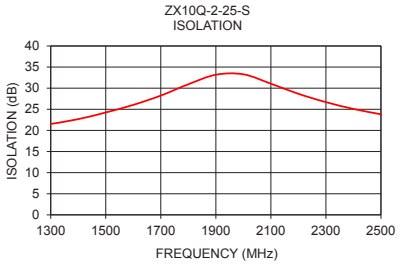
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
f_L-f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
1350-2450								
1350-1950	25	18	0.4	0.7	1.0	5.0	0.5	1.1
1950-2200	25	19	0.4	0.7	1.0	4.0	0.5	1.0
2200-2450	25	17	0.6	0.9	1.0	4.0	0.5	1.5

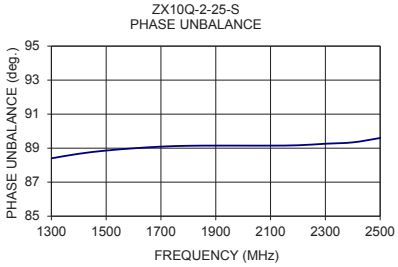
Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1275.00	2.95	3.83	0.88	21.24	88.32	1.19	1.20	1.18
1300.00	3.00	3.77	0.77	21.52	88.40	1.18	1.19	1.17
1400.00	3.17	3.56	0.38	22.67	88.67	1.15	1.16	1.14
1500.00	3.33	3.39	0.06	24.25	88.86	1.13	1.13	1.11
1600.00	3.45	3.26	0.20	26.05	88.99	1.11	1.10	1.09
1700.00	3.56	3.17	0.38	28.25	89.09	1.09	1.07	1.07
1800.00	3.63	3.12	0.50	30.93	89.14	1.08	1.05	1.05
1900.00	3.67	3.11	0.56	33.19	89.15	1.08	1.04	1.06
2000.00	3.67	3.14	0.53	33.29	89.15	1.08	1.04	1.07
2100.00	3.64	3.21	0.43	31.07	89.15	1.09	1.05	1.08
2200.00	3.58	3.33	0.25	28.67	89.17	1.11	1.08	1.10
2300.00	3.48	3.49	0.00	26.70	89.26	1.13	1.11	1.12
2400.00	3.35	3.69	0.35	25.09	89.34	1.16	1.14	1.16
2500.00	3.19	3.96	0.78	23.82	89.60	1.19	1.17	1.19
2550.00	3.10	4.13	1.03	23.23	89.77	1.21	1.19	1.21

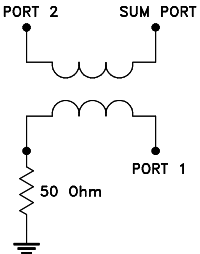
1. Total Loss = Insertion Loss + 3dB splitter loss.







electrical schematic



Notes

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