

SMA Connectorized

Power Splitter/Combiner

ZX10Q-2-13-S+

2 Way-90° 50Ω 675 to 1300 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	15W* max.

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

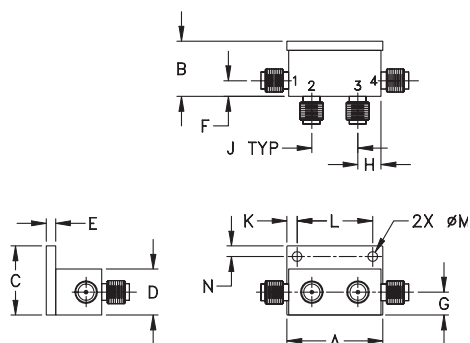
Coaxial Connections

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



** 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	

Features

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

Applications

- balanced amplifiers
- modulators
- GSM
- defense communication
- WiMax 700
- GPS civilian



CASE STYLE: GW1052

Connectors Model
SMA ZX10Q-2-13-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

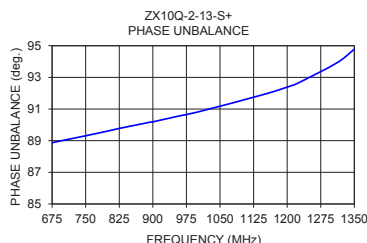
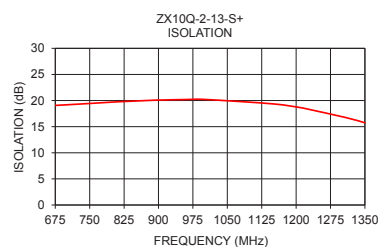
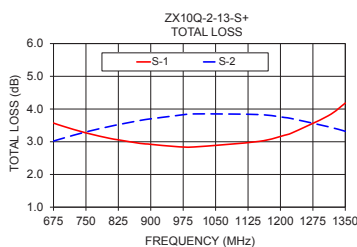
Electrical Specifications (T_{AMB}=25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
f _L -f _H								
675-1300	20	13	0.4	0.9	1.0	8.0	1.0	1.3
675-820	19	15	0.3	0.5	1.0	4.0	0.7	1.0
820-900	19	16	0.3	0.5	0.5	3.0	0.6	1.0
900-1000	19	16	0.4	0.6	1.0	3.0	0.8	1.2
1000-1200	17	14	0.4	0.6	3.0	5.0	0.8	1.2
1200-1300	15	13	0.5	0.8	5.0	7.0	0.5	0.9

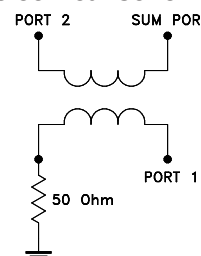
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
675.00	3.57	3.02	0.55	19.07	88.87	1.27	1.22	1.26
698.00	3.47	3.11	0.36	19.18	89.01	1.27	1.21	1.26
750.00	3.27	3.30	0.02	19.44	89.31	1.26	1.18	1.24
806.00	3.10	3.47	0.37	19.74	89.65	1.25	1.15	1.22
824.00	3.06	3.52	0.46	19.81	89.77	1.25	1.15	1.22
875.00	2.95	3.65	0.69	20.01	90.06	1.25	1.13	1.21
894.00	2.93	3.69	0.76	20.08	90.17	1.25	1.12	1.20
900.00	2.92	3.70	0.78	20.09	90.19	1.25	1.12	1.20
960.00	2.85	3.80	0.95	20.20	90.57	1.27	1.11	1.19
1000.00	2.84	3.85	1.01	20.22	90.81	1.28	1.11	1.18
1150.00	3.01	3.83	0.82	19.36	91.94	1.36	1.17	1.18
1210.00	3.20	3.74	0.54	18.64	92.48	1.42	1.21	1.19
1225.00	3.26	3.71	0.44	18.37	92.65	1.44	1.22	1.19
1310.00	3.79	3.46	0.32	16.71	93.90	1.56	1.30	1.23

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



electrical schematic




Notes

- 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.
- 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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