

SMA Connectorized Power Splitter/Combiner

ZX10Q-2-19+

2 Way-90° 50Ω 1100 to 1925 MHz

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.	

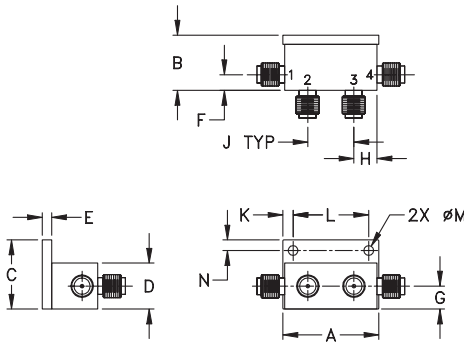
Coaxial Connections

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



** 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.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- protected by U.S Patent 6,790,049

Applications

- GPS
- PCS/DCS
- balanced amplifiers
- modulators

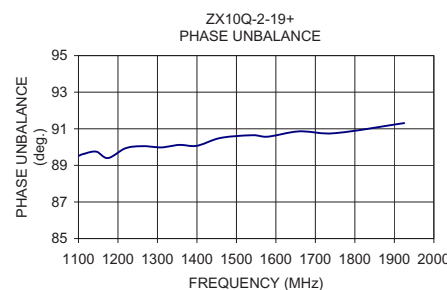
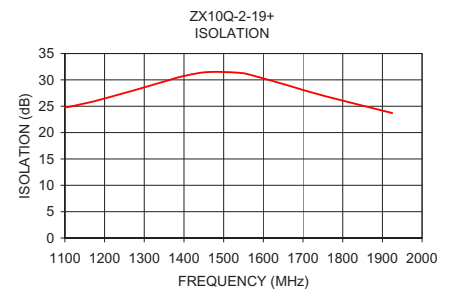
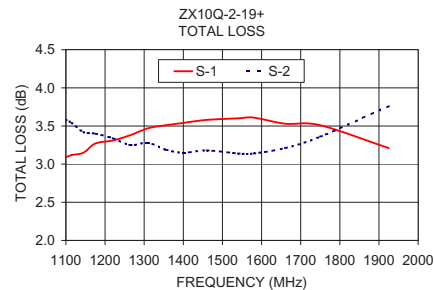
Electrical Specifications (T_{AMB}=25°C)

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.
1100-1925								
1100-1400	25	19	0.4	0.7	1.0	3.0	0.4	1.1
1400-1600	26	20	0.4	0.8	2.0	4.0	0.5	1.0
1600-1925	26	18	0.5	0.9	2.0	4.0	0.4	1.2

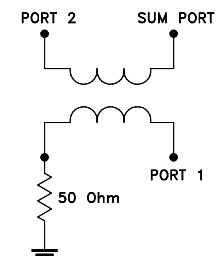
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1100.00	3.09	3.58	0.49	24.79	89.52	1.10	1.11	1.15
1115.00	3.12	3.54	0.42	24.96	89.64	1.09	1.10	1.14
1145.00	3.15	3.42	0.27	25.45	89.75	1.08	1.10	1.14
1175.00	3.27	3.40	0.13	25.96	89.40	1.07	1.09	1.13
1220.00	3.31	3.34	0.03	26.88	89.94	1.06	1.08	1.12
1265.00	3.38	3.25	0.13	27.82	90.05	1.05	1.07	1.11
1310.00	3.47	3.28	0.19	28.81	89.98	1.04	1.06	1.10
1355.00	3.51	3.19	0.31	29.78	90.12	1.04	1.05	1.09
1400.00	3.54	3.15	0.39	30.74	90.07	1.04	1.04	1.07
1460.00	3.58	3.18	0.39	31.49	90.50	1.04	1.03	1.06
1540.00	3.60	3.14	0.45	31.34	90.65	1.06	1.02	1.04
1580.00	3.61	3.14	0.46	30.69	90.57	1.07	1.02	1.04
1660.00	3.53	3.21	0.32	28.99	90.86	1.10	1.02	1.02
1750.00	3.51	3.36	0.16	27.04	90.76	1.14	1.03	1.01
1925.00	3.21	3.76	0.55	23.71	91.31	1.21	1.06	1.05

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-Circuits' applicable established test performance criteria and measurement instructions.
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