SMA Connectorized

Power Splitter/Combiner

ZX10Q-2-7+
ZX10Q-2-7

2 Way-90° 50Ω 425 to 675 MHz

CASE STYLE: GW1052

Connectors	Model	Price	Qty.
SMA	ZX10Q-2-7-S(+)	$29.95	(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)	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***

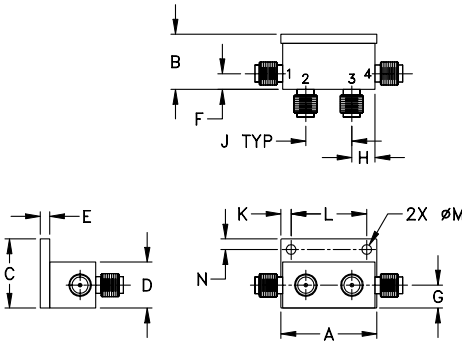
Features

- 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

- UHF
- balanced amplifiers
- modulators

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

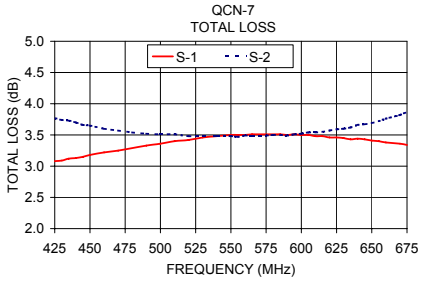
Electrical Specifications (T_{AMB}=25°C)

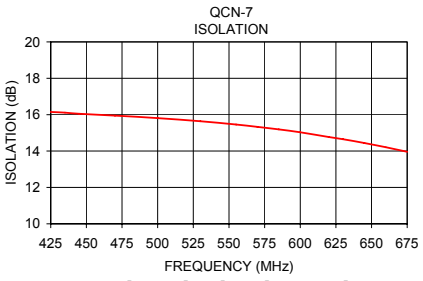
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
f_L-f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
425-675								
425-550	17	13	0.4	0.7	2	8	0.5	1.0
550-675	17	11	0.6	1.0	4	8	0.5	1.0

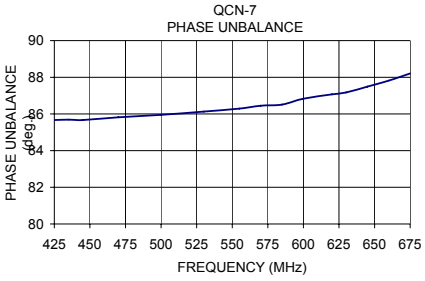
Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
425.00	3.08	3.77	0.69	16.15	85.67	1.32	1.30	1.26
435.00	3.12	3.73	0.60	16.11	85.69	1.32	1.30	1.26
445.00	3.15	3.66	0.51	16.05	85.67	1.32	1.29	1.26
470.00	3.25	3.57	0.31	15.95	85.82	1.32	1.29	1.26
500.00	3.36	3.51	0.15	15.81	85.95	1.32	1.28	1.26
530.00	3.46	3.48	0.02	15.64	86.13	1.32	1.28	1.26
555.00	3.50	3.47	0.03	15.46	86.29	1.33	1.29	1.27
570.00	3.51	3.49	0.02	15.33	86.45	1.34	1.29	1.27
585.00	3.51	3.50	0.00	15.19	86.51	1.35	1.29	1.28
600.00	3.50	3.52	0.02	15.03	86.83	1.35	1.30	1.29
620.00	3.46	3.57	0.11	14.77	87.07	1.37	1.31	1.30
630.00	3.45	3.60	0.15	14.65	87.17	1.38	1.32	1.31
645.00	3.43	3.67	0.24	14.44	87.49	1.40	1.33	1.33
660.00	3.38	3.76	0.38	14.21	87.82	1.42	1.34	1.35
675.00	3.34	3.87	0.53	13.96	88.21	1.44	1.36	1.37

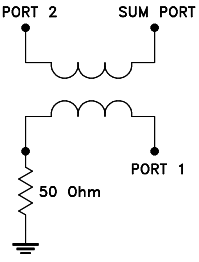
1. Total Loss = Insertion Loss + 3dB splitter loss.







electrical schematic



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ZX10Q-2-7
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