

Power Splitter/Combiner

ZC6PD-960

6 Way-0° 50Ω 890 to 960 MHz

Maximum Ratings

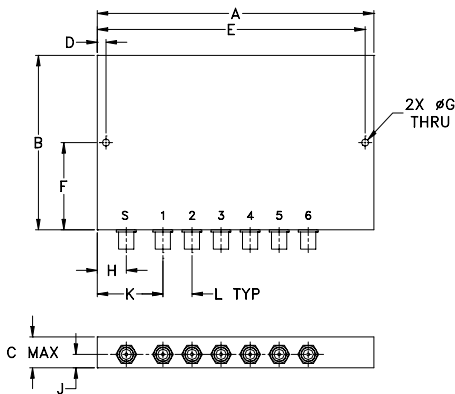
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	2.4A(400mA for each port)

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6	1,2,3,4,5,6

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
4.76	3.00	.53	.150	4.610	1.500
120.90	76.20	13.46	3.81	117.09	38.10
G	H	J	K	L	wt
.125	.50	.25	1.13	.50	grams
3.18	12.70	6.35	28.70	12.70	155

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- excellent VSWR, output, 1.1:1 typ.
- up to 10W power input as splitter
- rugged shielded case

Applications

- cellular
- signal processing
- instrumentation



CASE STYLE: AB185

Connectors	Model
SMA	ZC6PD-960-S

+RoHS Compliant

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

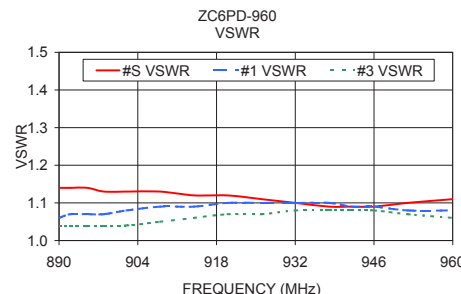
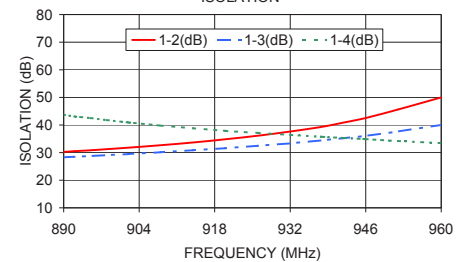
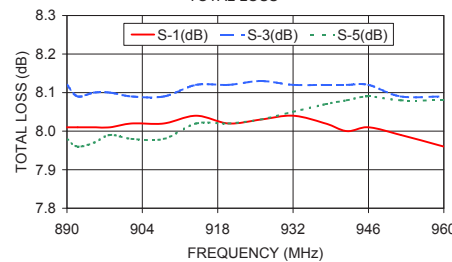
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
f _L -f _U					Max.	Max.	Typ.	Max.	Typ.	Max.
890-960	30	20	0.4	0.8	—	0.4	1.2	1.5	1.1	1.5

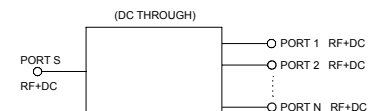
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	1-4				
890.00	8.01	8.12	7.98	0.14	30.27	28.32	43.72	8.08	1.14	1.06	1.04
892.00	8.01	8.09	7.96	0.15	30.53	28.50	43.10	8.10	1.14	1.07	1.04
895.00	8.01	8.10	7.97	0.13	30.85	28.77	42.52	8.18	1.14	1.07	1.04
898.00	8.01	8.10	7.99	0.14	31.24	29.09	41.78	8.18	1.13	1.07	1.04
902.00	8.02	8.09	7.98	0.14	31.77	29.47	40.94	8.27	1.13	1.08	1.04
908.00	8.02	8.09	7.98	0.15	32.69	30.15	39.79	8.32	1.13	1.09	1.05
914.00	8.04	8.12	8.02	0.15	33.68	30.88	38.83	8.30	1.12	1.09	1.06
920.00	8.02	8.12	8.02	0.12	34.85	31.60	37.87	8.41	1.12	1.10	1.07
926.00	8.03	8.13	8.03	0.12	36.13	32.48	37.15	8.33	1.11	1.10	1.07
932.00	8.04	8.12	8.05	0.11	37.64	33.36	36.41	8.29	1.10	1.10	1.08
938.00	8.02	8.12	8.07	0.14	39.39	34.45	35.71	8.44	1.09	1.10	1.08
942.00	8.00	8.12	8.08	0.14	40.94	35.25	35.30	8.38	1.09	1.09	1.08
946.00	8.01	8.12	8.09	0.14	42.54	36.05	34.87	8.34	1.09	1.09	1.08
952.00	7.99	8.09	8.08	0.14	45.64	37.64	34.21	8.40	1.10	1.08	1.07
960.00	7.96	8.09	8.08	0.15	49.99	40.07	33.44	8.50	1.11	1.08	1.06

1. Total Loss = Insertion Loss + 7.8dB 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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