

# Power Splitter/Combiner

## ZB6PD1-960

6 Way-0° 50Ω 890 to 960 MHz

### Maximum Ratings

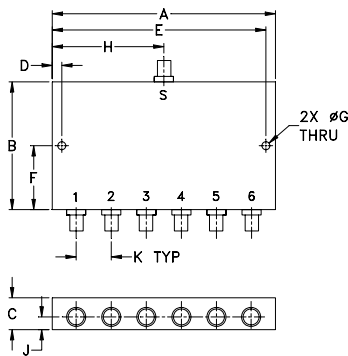
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.5W max.
DC Current	1.2A(200mA for each port)

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
6.00	1.62	.88	.250	5.750	.810
152.40	41.15	22.35	6.35	146.05	20.57
G	H	J	K	wt	
.144	3.00	.44	1.00	grams	
3.66	76.20	11.18	25.40	340	

### Features

- low insertion loss, 0.3 dB typ.
- high isolation, 35 dB typ.
- excellent VSWR, output, 1.1:1 typ.
- rugged shielded case

### Applications

- cellular
- signal processing
- instrumentation



Generic photo used for illustration purposes only

CASE STYLE: UU187

Connectors	Model
SMA	ZB6PD1-960-S
N-TYPE	ZB6PD1-960-N

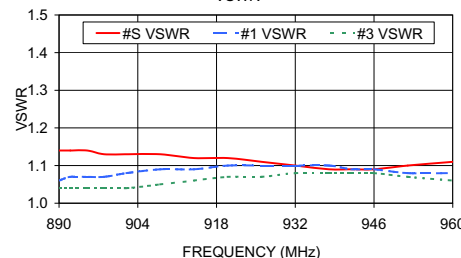
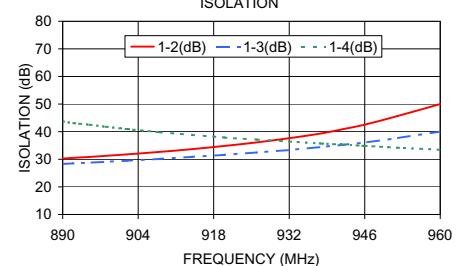
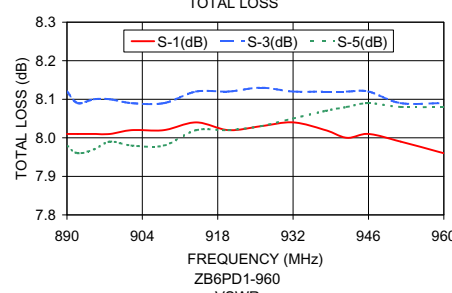
### Electrical Specifications

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 <sub>L</sub> -f <sub>U</sub>					Max.	Max.	Typ.	Max.	Typ.	Max.
890-960	35	20	0.3	0.8	—	0.6	1.1	1.3	1.1	1.3

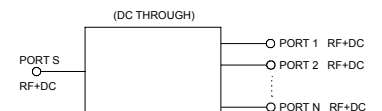
### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (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				
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

ZB6PD1-960 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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