

# Power Splitter/Combiner

## ZB6PD-2+

6 Way 50Ω 800 to 2000 MHz



HT-Series  
Tight Spot  
SMA Wrench  
From \$24.95

### Maximum Ratings

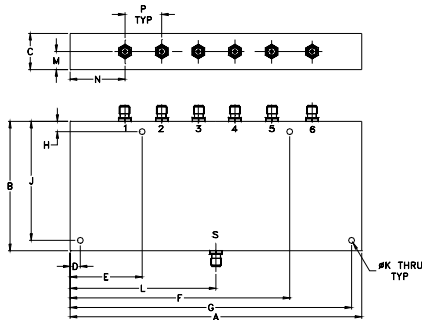
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.8A(300mA for each port)

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	G	H	
7.06	3.13	.88	.250	1.750	5.310	6.810	.250	
179.32	79.50	22.35	6.35	44.45	134.87	172.97	6.35	
J	K	L	M	N	P		wt	
2.875	.144	3.53	.44	1.31	.89		grams	
73.03	3.66	89.66	11.18	33.27	22.61		800	

### Features

- wideband, 800 to 2000 MHz
- excellent VSWR, 1.1:1 typ. output
- high isolation, 27dB typ.
- rugged, shielded case
- up to 10W power input as splitter

### Applications

- cellular
- PCN
- instrumentation
- satellite distribution

SMA version shown  
CASE STYLE: Z259

Connectors	Model
SMA	ZB6PD-2-S+
N-TYPE	ZB6PD-2-N+

**+RoHS Compliant**

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

### Electrical Specifications

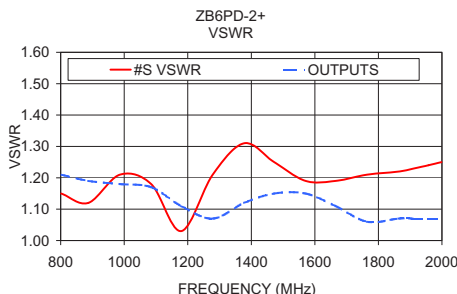
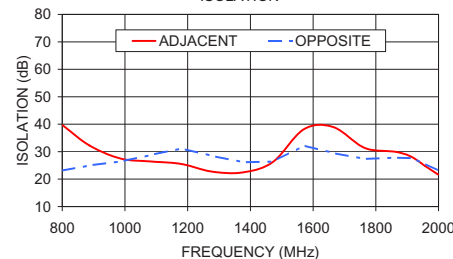
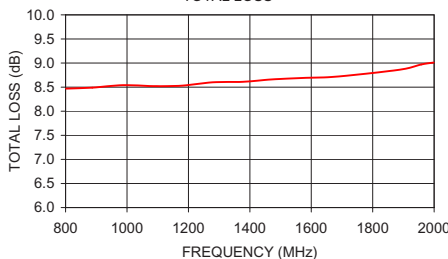
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.		S		OUT	
f <sub>L</sub> -f <sub>U</sub>					Max.	Typ.	Max.	Typ.	Max.
800-2000	27	17	0.7	1.7	0.7	1.2	1.6	1.13	1.3

### Typical Performance Data

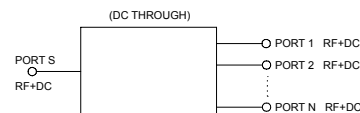
Frequency (MHz)	Total Loss <sup>1</sup> (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR OUTPUTS
			Adjacent	Opposite		
			801.50	8.47		
887.00	8.49	0.31	32.26	24.98	1.12	1.19
986.50	8.54	0.33	27.48	26.44	1.21	1.18
1085.00	8.52	0.31	26.40	28.83	1.18	1.17
1179.50	8.53	0.31	25.53	31.14	1.03	1.11
1278.50	8.60	0.31	22.70	28.45	1.21	1.07
1377.50	8.61	0.30	22.46	26.13	1.31	1.12
1472.00	8.66	0.30	26.27	26.38	1.25	1.15
1571.00	8.69	0.27	38.21	32.21	1.19	1.15
1665.00	8.71	0.26	38.95	29.48	1.19	1.11
1764.50	8.77	0.33	31.36	27.36	1.21	1.06
1863.50	8.84	0.30	29.93	27.81	1.22	1.07
1913.00	8.89	0.32	28.17	27.62	1.23	1.07
1958.00	8.97	0.34	24.73	25.52	1.24	1.07
1998.50	9.01	0.35	21.70	23.15	1.25	1.07

ZB6PD-2+ TOTAL LOSS 1. Total Loss = Insertion Loss + 7.8dB splitter loss.

ZB6PD-2+ ISOLATION



### 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.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/WCLStore/terms.jsp](http://www.minicircuits.com/WCLStore/terms.jsp)

