

Power Splitter/Combiner

ZB6PD-2+

6 Way 50Ω 800 to 2000 MHz



HT-Series
Tight Spot
SMA Wrench
From \$24.95

Maximum Ratings

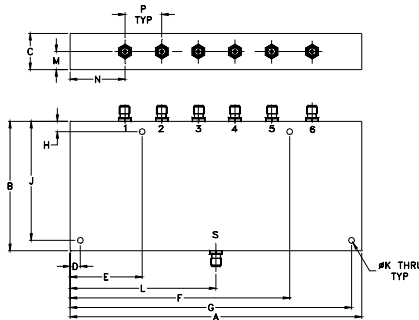
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.8A(300mA for each port)

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

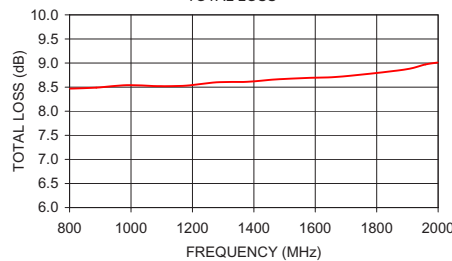
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.		S		OUT	
f _L -f _U					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

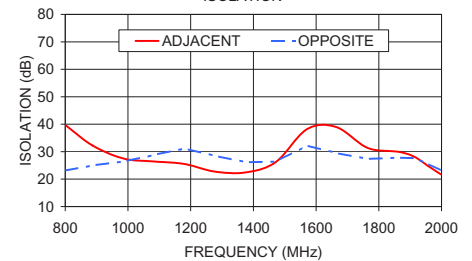
Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR OUTPUTS
			Adjacent	Opposite		
			801.50	8.47		
887.00	8.49	0.31	32.26	24.98	1.12	1.19
986.50	8.54	0.33	27.48	26.44	1.21	1.18
1085.00	8.52	0.31	26.40	28.83	1.18	1.17
1179.50	8.53	0.31	25.53	31.14	1.03	1.11
1278.50	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

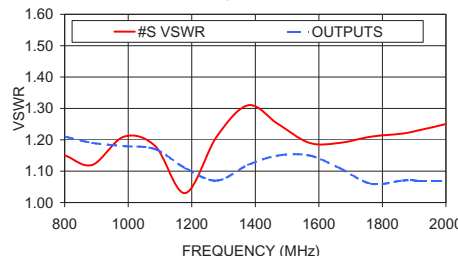


1. Total Loss = Insertion Loss + 7.8dB splitter loss.

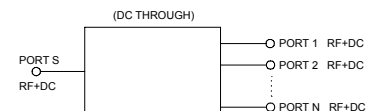
ZB6PD-2+ ISOLATION



ZB6PD-2+ VSWR



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



6 Way-0° Power Splitter/Combiner

ZB6PD-2+

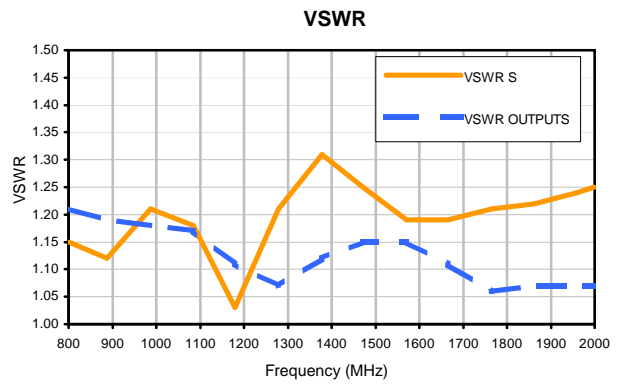
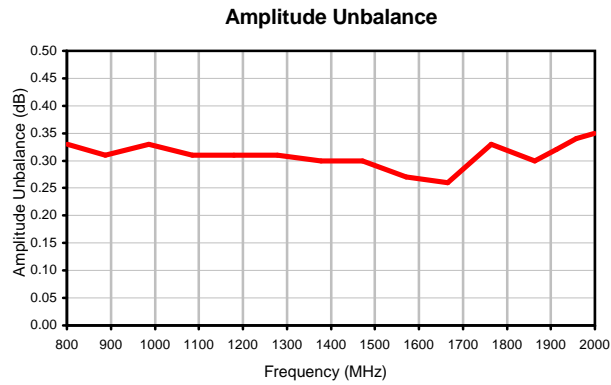
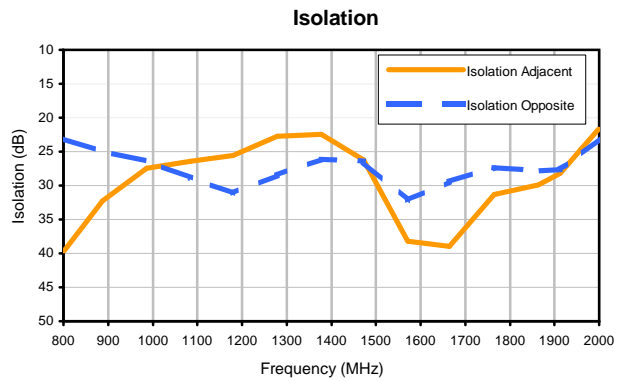
Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)	AMP. UNBAL. (dB)	ISOLATION (dB)		FREQ. (MHz)	VSWR (:1)	
			Adjacent	Opposite		S	OUTPUTS
801.5	8.47	0.33	39.60	23.12	801.5	1.15	1.21
887.0	8.49	0.31	32.26	24.98	887.0	1.12	1.19
986.5	8.54	0.33	27.48	26.44	986.5	1.21	1.18
1085.0	8.52	0.31	26.40	28.83	1085.0	1.18	1.17
1179.5	8.53	0.31	25.53	31.14	1179.5	1.03	1.11
1278.5	8.60	0.31	22.70	28.45	1278.5	1.21	1.07
1377.5	8.61	0.30	22.46	26.13	1377.5	1.31	1.12
1472.0	8.66	0.30	26.27	26.38	1472.0	1.25	1.15
1571.0	8.69	0.27	38.21	32.21	1571.0	1.19	1.15
1665.0	8.71	0.26	38.95	29.48	1665.0	1.19	1.11
1764.5	8.77	0.33	31.36	27.36	1764.5	1.21	1.06
1863.5	8.84	0.30	29.93	27.81	1863.5	1.22	1.07
1913.0	8.89	0.32	28.17	27.62	1913.0	1.23	1.07
1958.0	8.97	0.34	24.73	25.52	1958.0	1.24	1.07
1998.5	9.01	0.35	21.70	23.15	1998.5	1.25	1.07

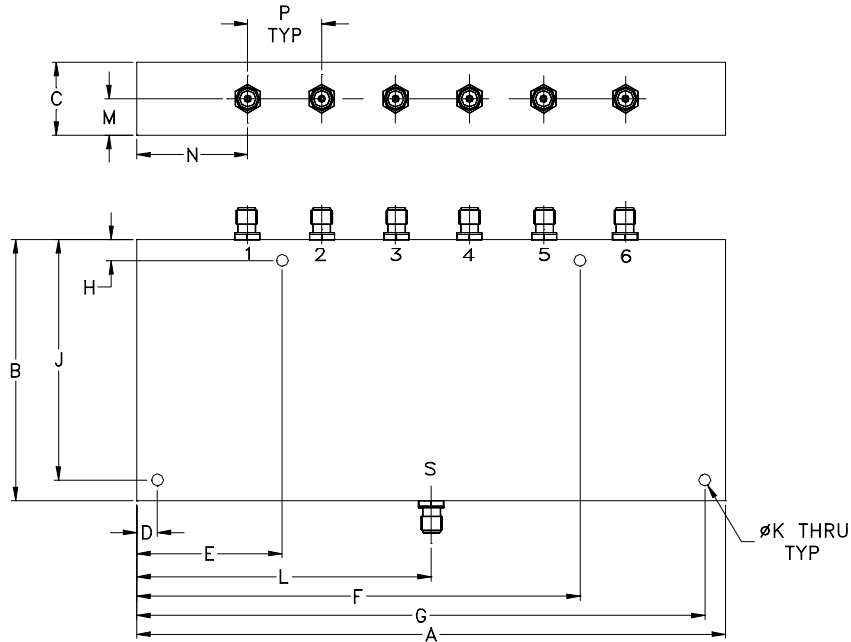
6 Way-0° Power Splitter/Combiner

ZB6PD-2+

Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
Z259	7.06 (179.32)	3.13 (79.50)	.88 (22.35)	.250 (6.35)	1.750 (44.45)	5.310 (134.87)	6.810 (172.97)	.250 (6.35)	2.875 (73.03)	.144 (3.66)	3.53 (89.66)	.44 (11.18)	1.31 (33.27)

CASE#	P	WT.GRAMS
Z259	.89 (22.61)	800

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I