

Power Splitter/Combiner

ZB6PD-1700

6 Way-0° 50Ω 1500 to 1700 MHz

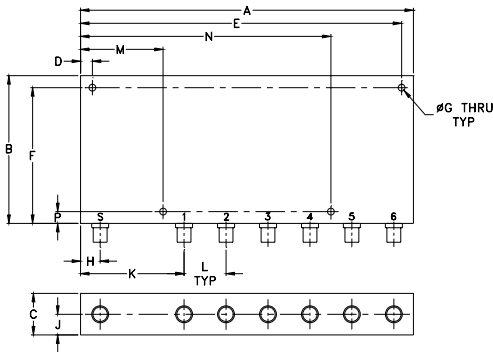
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.750W 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	6.810	2.875	.144	.42
179.32	79.50	22.35	6.35	172.97	73.03	3.66	10.67
J	K	L	M	N	P	wt	
.44	2.20	.89	1.750	5.310	.250	grams	
11.18	55.88	22.61	44.45	134.87	6.35	800	

Features

- high isolation, 30 dB typ.
- low insertion loss, 0.5 dB typ.
- rugged, shielded case
- up to 10W power input as splitter

Applications

- UHF/GPS
- instrumentation
- signal processing

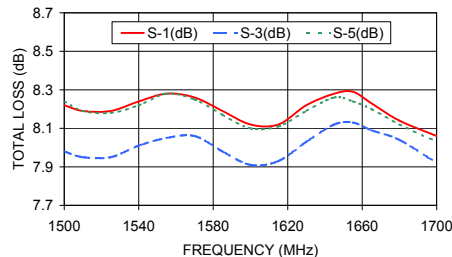
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 7.8 dB	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	S Typ. Max. OUT Typ. Max.
1500-1700	30 20	0.5 1.0	0.6	1.15 1.5 1.3 1.5

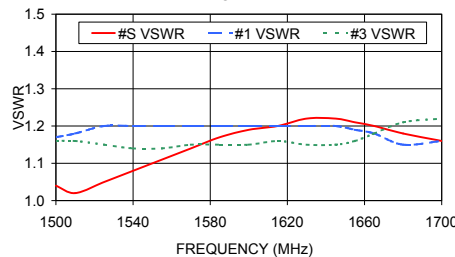
Typical Performance Data

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 1-5				
1500.00	8.22	7.98	8.24	0.26	28.76 35.78 35.94	106.97	1.04	1.17	1.16
1510.00	8.19	7.95	8.19	0.26	29.63 36.21 37.19	107.57	1.02	1.18	1.16
1525.00	8.19	7.95	8.18	0.25	30.88 36.03 40.62	108.71	1.05	1.20	1.15
1540.00	8.24	8.01	8.22	0.24	32.39 36.09 44.99	109.66	1.08	1.20	1.14
1555.00	8.28	8.05	8.28	0.23	33.52 35.34 51.38	110.72	1.11	1.20	1.14
1570.00	8.26	8.06	8.25	0.22	34.08 34.37 47.35	111.85	1.14	1.20	1.15
1585.00	8.19	7.98	8.17	0.22	34.67 33.92 43.05	112.86	1.17	1.20	1.15
1600.00	8.12	7.91	8.10	0.23	33.71 33.02 40.54	113.87	1.19	1.20	1.15
1615.00	8.12	7.93	8.11	0.22	33.08 32.68 38.10	114.96	1.20	1.20	1.16
1630.00	8.22	8.03	8.19	0.21	32.16 32.12 36.38	116.08	1.22	1.20	1.15
1645.00	8.28	8.12	8.26	0.18	30.63 32.20 35.61	117.10	1.22	1.20	1.15
1655.00	8.29	8.13	8.24	0.17	29.55 31.91 35.33	117.91	1.21	1.19	1.16
1665.00	8.23	8.09	8.20	0.17	28.51 31.89 34.71	118.58	1.20	1.18	1.18
1680.00	8.14	8.04	8.12	0.15	26.98 31.49 34.03	119.99	1.18	1.15	1.21
1700.00	8.06	7.92	8.03	0.15	25.19 31.74 33.45	121.58	1.16	1.16	1.22

ZB6PD-1700
TOTAL LOSS

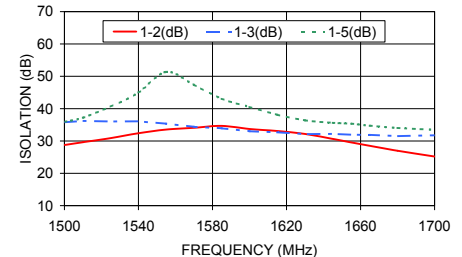


ZB6PD-1700
VSWR

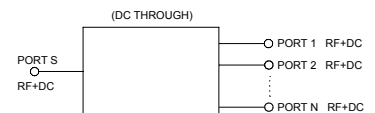


1. Total Loss = Insertion Loss + 7.8dB splitter loss.

ZB6PD-1700
ISOLATION



electrical schematic



Notes

- A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. 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/MCLStore/terms.jsp



SMA version shown
CASE STYLE: AB1232
Connectors Model
SMA ZB6PD-1700-S
N-Type ZB6PD-1700-N