DC Pass

Power Splitter/Combiner

ZB6PD-1700

6 Way-0° 50Ω 1500 to 1700 MHz

HT-Series Tight Spot SMA Wrench From $24.95

SMA version shown

CASE STYLE: AB1232

Connectors	Model
SMA	ZB6PD-1700-S
N-Type	ZB6PD-1700-N

Maximum Ratings

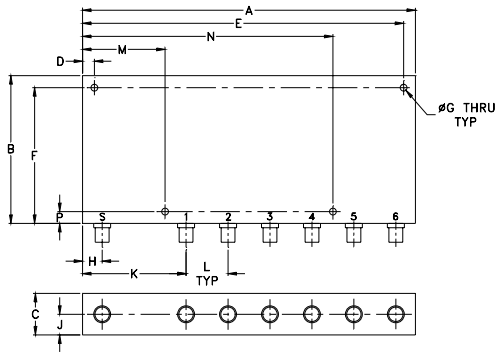
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.750W max.
DC Current	1.8A(300mA for each port)

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

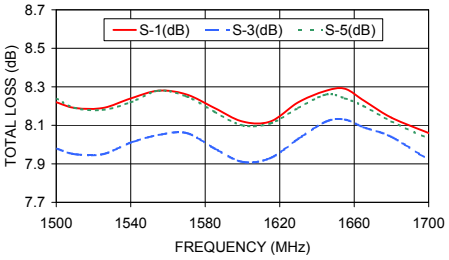
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
						S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Typ.	Max.	Typ.	Max.
1500-1700	30	20	0.5	1.0	0.6	1.15	1.5	1.3	1.5

Typical Performance Data

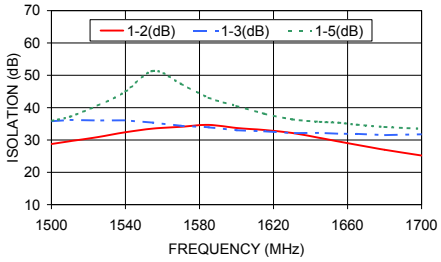
Frequency (MHz)	Total Loss[1] (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	1-5				
1500.00	8.22	7.98	8.24	0.26	28.76	35.78	35.94	106.97	1.04	1.17	1.16
1510.00	8.19	7.95	8.19	0.26	29.63	36.21	37.19	107.57	1.02	1.18	1.16
1525.00	8.19	7.95	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

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

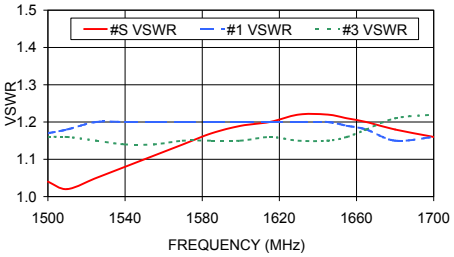
ZB6PD-1700
TOTAL LOSS



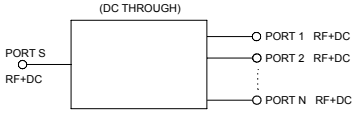
ZB6PD-1700
ISOLATION



ZB6PD-1700
VSWR



electrical schematic



Notes

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