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DC Pass

Power Splitter/Combiner

6 Way-0° 50Ω 600 to 1700 MHz

ZB6PD-17-S



CASE STYLE: UU586

Connectors	Model
SMA	ZB6PD-17-S

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	1.5A(250mA 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

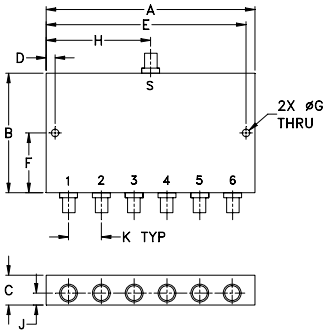
Features

- wideband, 600 to 1700 MHz
- Low insertion loss, 0.35 dB typ.
- Good isolation, 25 dB typ.
- Excellent output VSWR, 1.1:1 typ.
- rugged, shielded case
- up to 10W power input as splitter

Applications

- VHF
- cellular
- PCN
- instrumentation

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F
3.50	3.00	.63	.125	3.375	1.50
88.90	76.20	16.00	3.18	85.73	38.10

G	H	J	K	wt
.125	1.75	.32	.500	grams
3.18	44.45	8.13	12.70	180

Electrical Specifications

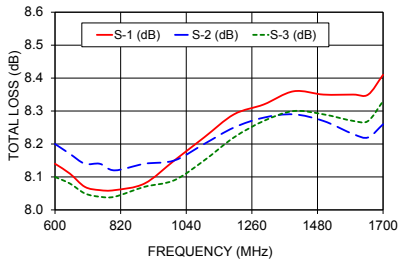
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
600-1700	25	18	0.35	0.9	7	0.5	1.22	1.6	1.15	1.35

Typical Performance Data

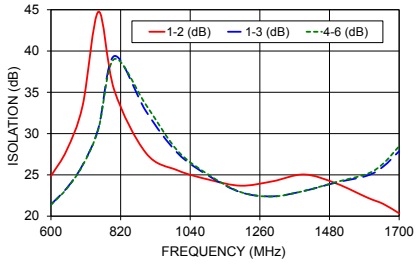
Frequency (MHz)	Total Loss[1] (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	4-6				
600.00	8.14	8.20	8.10	0.17	24.86	21.42	21.37	0.89	1.40	1.03	1.03
650.00	8.11	8.17	8.08	0.17	28.02	23.40	23.34	0.98	1.33	1.04	1.03
700.00	8.07	8.14	8.05	0.16	33.38	26.20	26.15	1.06	1.24	1.06	1.04
750.00	8.06	8.14	8.04	0.17	44.76	30.67	30.58	1.16	1.17	1.08	1.06
800.00	8.06	8.12	8.04	0.16	35.26	39.39	39.02	1.26	1.14	1.09	1.08
900.00	8.08	8.14	8.07	0.15	27.65	32.72	33.49	1.43	1.15	1.11	1.10
1000.00	8.15	8.15	8.09	0.14	25.55	27.64	27.92	1.59	1.13	1.12	1.11
1100.00	8.22	8.20	8.15	0.13	24.41	24.85	24.97	1.77	1.19	1.13	1.12
1200.00	8.29	8.25	8.22	0.14	23.69	22.89	22.91	2.04	1.28	1.11	1.11
1300.00	8.32	8.28	8.27	0.15	24.22	22.40	22.38	2.33	1.28	1.07	1.09
1400.00	8.36	8.29	8.30	0.14	25.05	23.06	23.06	2.56	1.23	1.04	1.06
1500.00	8.35	8.27	8.29	0.14	23.98	24.06	24.12	2.64	1.21	1.04	1.04
1600.00	8.35	8.23	8.27	0.16	22.24	24.92	25.14	2.96	1.14	1.11	1.08
1650.00	8.35	8.22	8.27	0.18	21.48	26.02	26.38	3.05	1.06	1.15	1.11
1700.00	8.41	8.26	8.33	0.21	20.34	27.87	28.47	3.32	1.10	1.20	1.16

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

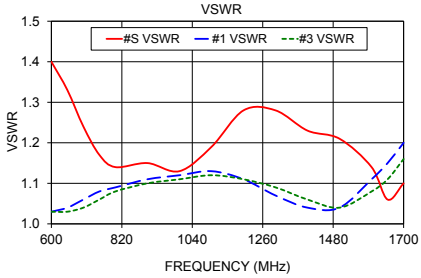
ZB6PD-17-S
TOTAL LOSS



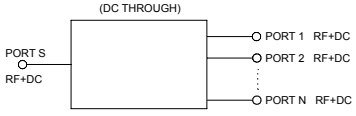
ZB6PD-17-S
ISOLATION



ZB6PD-17-S
VSWR



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.
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