

Power Splitter/Combiner

ZB6PD1-1900

6 Way-0° 50Ω 1700 to 1900 MHz

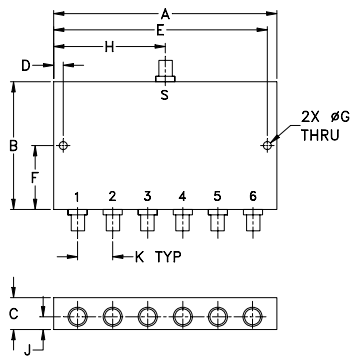
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.5W 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
6.00	1.62	.88	.250	5.750	.810
152.40	41.15	22.35	6.35	146.05	20.57

G	H	J	K	wt
.144	3.00	.44	1.00	grams
3.66	76.20	11.18	25.40	340

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 32 dB typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case
- up to 10W power input as splitter

Applications

- PCS/DCS
- communications systems
- instrumentation



SMA version shown

CASE STYLE: UU187

Connectors	Model
SMA	ZB6PD1-1900-S
N-TYPE	ZB6PD1-1900-N

Electrical Specifications

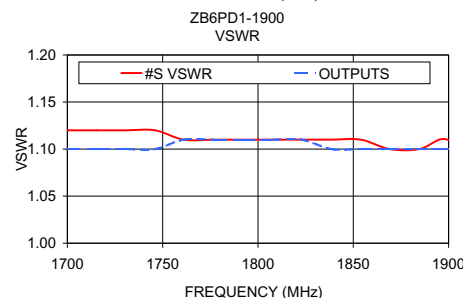
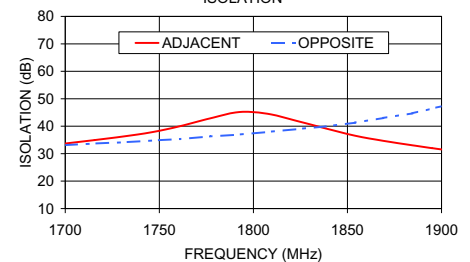
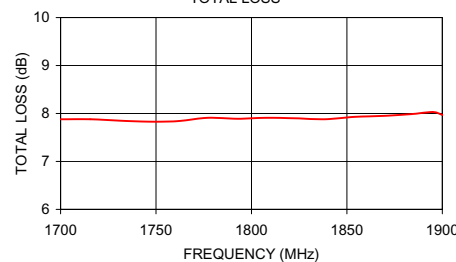
FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 7.8 dB	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	S Typ. Max. OUT Typ. Max.
1700-1900	32 20	0.4 0.8	0.6	1.1 1.3 1.09 1.4

Typical Performance Data

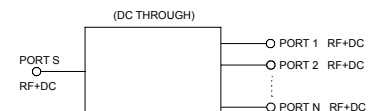
Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR OUTPUTS
		Adjacent Opposite			
1700.00	7.88	0.21	33.71	33.10	1.12 1.10
1715.50	7.88	0.20	34.95	33.70	1.12 1.10
1731.00	7.85	0.20	36.27	34.13	1.12 1.10
1746.00	7.83	0.17	37.81	34.76	1.12 1.10
1761.00	7.84	0.20	40.02	35.34	1.11 1.11
1777.00	7.91	0.17	42.84	36.27	1.11 1.11
1792.50	7.89	0.13	45.17	36.97	1.11 1.11
1807.50	7.91	0.13	44.54	37.90	1.11 1.11
1823.00	7.90	0.17	41.92	38.94	1.11 1.11
1838.50	7.88	0.15	39.17	39.91	1.11 1.10
1854.00	7.93	0.13	36.55	41.27	1.11 1.10
1869.00	7.95	0.12	34.68	43.01	1.10 1.10
1884.50	7.99	0.13	33.06	44.69	1.10 1.10
1895.00	8.03	0.12	32.02	46.45	1.11 1.10
1900.00	7.97	0.13	31.53	47.29	1.11 1.10

ZB6PD1-1900
TOTAL LOSS

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

ZB6PD1-1900
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.
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