

Power Splitter/Combiner

ZB6PD1-1900

6 Way-0° 50Ω 1700 to 1900 MHz

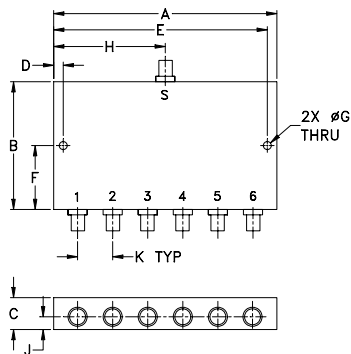
Maximum Ratings

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.
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



CASE STYLE: UU187

Connectors	Model	Price	Qty.
SMA	ZB6PD1-1900-S	\$149.95	(1-9)
N-TYPE	ZB6PD1-1900-N	\$149.95	(1-9)

Electrical Specifications

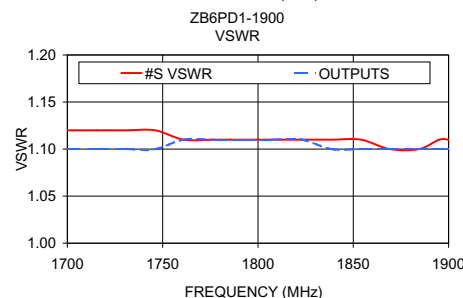
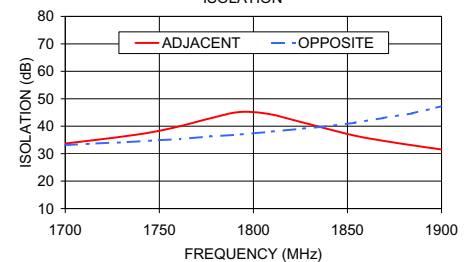
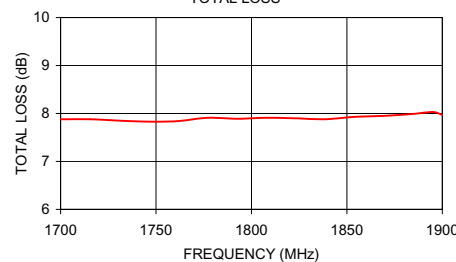
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.	Max.	S		OUT	
f_L - f_U						Typ.	Max.	Typ.	Max.
1700-1900	32	20	0.4	0.8	0.6	1.1	1.3	1.09	1.4

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



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