

Power Splitter/Combiner

ZC6PD-1900W+

6 Way-0° 50Ω 1500 to 2000 MHz

Maximum Ratings

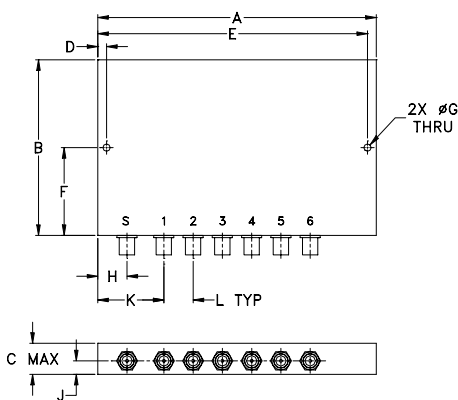
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.8A(300mA for each port)

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)

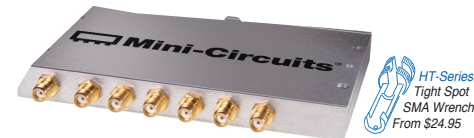
A	B	C	D	E	F
4.76	3.00	.53	.150	4.610	1.500
120.90	76.20	13.46	3.81	117.09	38.10
G	H	J	K	L	wt
.125	.50	.25	1.13	.50	grams
3.18	12.70	6.35	28.70	12.70	155

Features

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

Applications

- GPS
- PCS
- communication systems
- instrumentation



CASE STYLE: AB185

Connectors	Model
SMA	ZC6PD-1900W-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

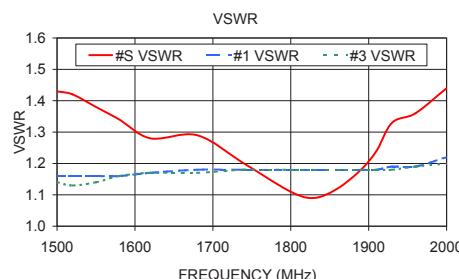
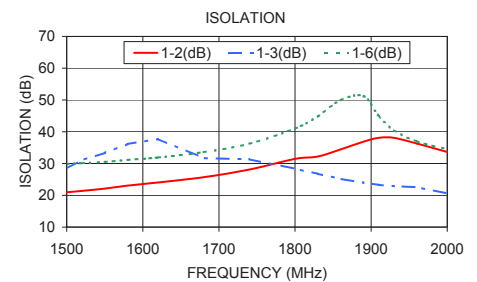
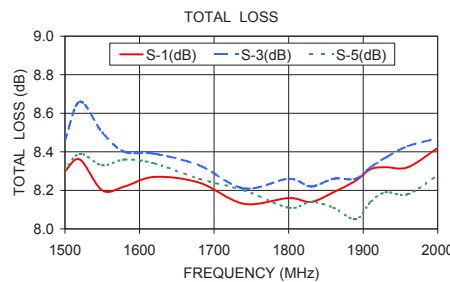
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.		S		OUT	
f _L -f _U					Max.	Typ.	Max.	Typ.	Max.
1500-2000	30	15	0.5	1.0	0.6	1.1	1.68	1.1	1.5

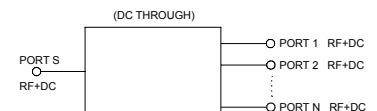
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)			Amplitude Unbalance (dB)	Isolation (dB)			VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	1-6			
1500.00	8.30	8.46	8.31	0.21	20.94	28.46	29.86	1.43	1.16	1.14
1520.00	8.36	8.66	8.39	0.35	21.38	31.08	30.12	1.42	1.16	1.13
1550.00	8.20	8.50	8.33	0.37	22.11	33.34	30.54	1.38	1.16	1.14
1580.00	8.22	8.40	8.36	0.36	23.06	36.14	31.15	1.34	1.16	1.16
1620.00	8.27	8.39	8.34	0.18	24.03	37.71	31.91	1.28	1.17	1.17
1680.00	8.24	8.33	8.26	0.11	25.71	31.69	33.60	1.29	1.18	1.17
1740.00	8.13	8.21	8.20	0.18	28.12	31.33	36.26	1.20	1.18	1.18
1800.00	8.16	8.26	8.11	0.17	31.45	28.35	41.05	1.11	1.18	1.18
1830.00	8.14	8.22	8.14	0.11	32.22	26.76	44.85	1.09	1.18	1.18
1860.00	8.19	8.26	8.11	0.17	34.45	25.19	50.00	1.12	1.18	1.18
1890.00	8.25	8.26	8.05	0.24	36.88	23.95	51.21	1.18	1.18	1.18
1910.00	8.31	8.32	8.14	0.23	38.07	23.29	44.96	1.24	1.18	1.18
1930.00	8.32	8.37	8.19	0.21	38.09	22.88	40.44	1.33	1.19	1.18
1960.00	8.32	8.43	8.18	0.30	36.29	22.57	36.99	1.36	1.19	1.19
2000.00	8.42	8.47	8.28	0.24	33.63	20.59	34.49	1.44	1.22	1.20

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



electrical schematic



Notes

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

