

Power Splitter/Combiner

6 Way-0° 50Ω 700 to 1000 MHz

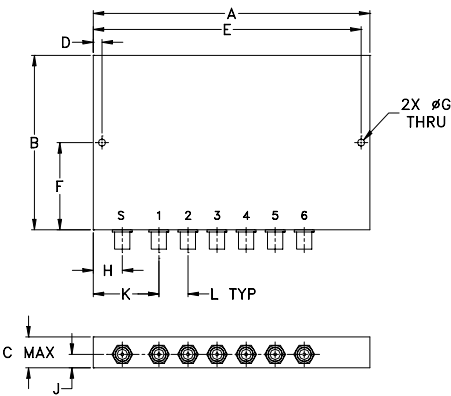
Maximum Ratings

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	2.4A(400mA 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)

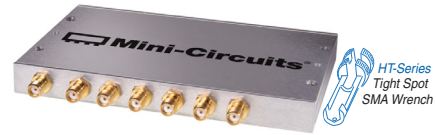
A	B	C	D	E	F
4.76	3.00	.53	.150	4.610	1.500
120.90	76.20	13.46	3.81	117.09	38.10
G	H	J	K	L	wt
.125	.50	.25	1.13	.50	grams
3.18	12.70	6.35	28.70	12.70	155

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 28 dB typ.
- up to 10W power output as splitter
- rugged shielded case

Applications

- UHF
- cellular
- instrumentation



CASE STYLE: AB185

Connectors	Model
SMA	ZC6PD-960W-S

+RoHS Compliant

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

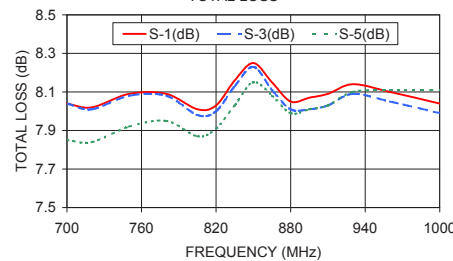
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 7.8 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.	S Typ. Max. OUT Typ. Max.
700-1000	28 15	0.4 1.0	—	0.6	1.3 1.5 1.2 1.5

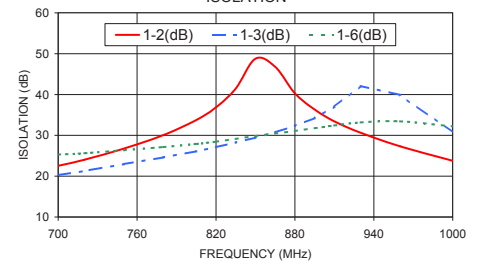
Typical Performance Data

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	1-6				
700.00	8.04	8.04	7.85	0.21	22.53	20.27	25.29	2.51	1.04	1.05	1.06
720.00	8.02	8.01	7.84	0.19	24.03	21.27	25.61	2.35	1.03	1.06	1.07
750.00	8.09	8.08	7.92	0.18	26.76	22.97	26.38	2.46	1.11	1.07	1.08
780.00	8.09	8.08	7.95	0.15	30.06	24.62	27.14	2.22	1.18	1.08	1.09
805.00	8.01	7.98	7.87	0.14	33.76	26.10	27.90	2.38	1.22	1.09	1.10
820.00	8.03	8.00	7.91	0.14	36.88	27.12	28.45	2.37	1.25	1.10	1.11
835.00	8.16	8.13	8.03	0.13	41.45	28.24	29.12	2.47	1.26	1.11	1.12
850.00	8.25	8.23	8.15	0.12	48.78	29.47	29.82	2.35	1.27	1.12	1.13
865.00	8.15	8.11	8.08	0.11	46.78	30.74	30.43	2.25	1.27	1.13	1.14
880.00	8.05	8.01	7.99	0.08	40.30	32.33	31.07	2.36	1.26	1.14	1.15
895.00	8.07	8.01	8.01	0.08	36.33	34.25	31.75	2.46	1.25	1.14	1.15
910.00	8.09	8.03	8.03	0.07	33.44	37.01	32.42	2.55	1.24	1.15	1.16
930.00	8.14	8.09	8.10	0.06	30.64	42.09	33.16	2.52	1.21	1.16	1.17
960.00	8.10	8.05	8.11	0.06	27.31	39.90	33.43	2.49	1.15	1.17	1.18
1000.00	8.04	7.99	8.11	0.13	23.78	30.76	32.19	2.64	1.13	1.17	1.18

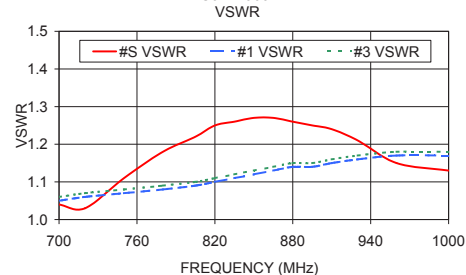
ZC6PD-960W TOTAL LOSS 1. Total Loss = Insertion Loss + 7.8dB splitter loss.



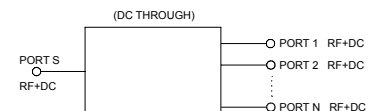
ZC6PD-960W ISOLATION



ZC6PD-960W



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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