

Coaxial

# Power Splitter/Combiner

## ZC10PD-900W

10 Way-0° 50Ω 750 to 900 MHz

### Maximum Ratings

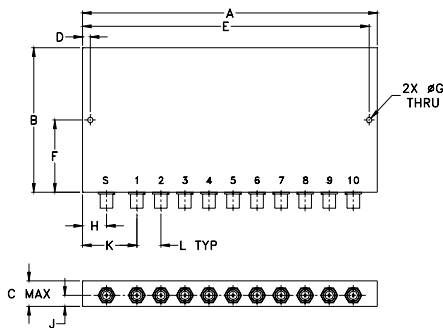
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1.5W max.

Permanent damage may occur if any of these limits are exceeded.

### Coaxial Connections

SUM PORT	S
PORT 1,2,3,.....,10	1,2,3,.....,10

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F
6.13	3.00	.53	.162	5.962	1.500
155.70	76.20	13.46	4.11	151.43	38.10
G	H	J	K	L	wt
.116	.50	.25	1.13	.50	grams
2.95	12.70	6.35	28.70	12.70	207

### Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- up to 10W power input as splitter
- rugged shielded case

### Applications

- UHF
- cellular
- communication systems



CASE STYLE: AB204

Connectors	Model
SMA	ZC10PD-900W

### Electrical Specifications

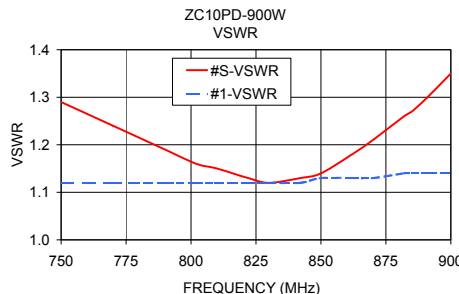
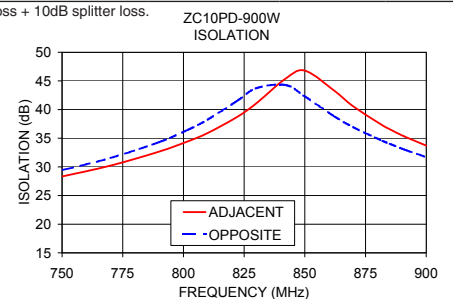
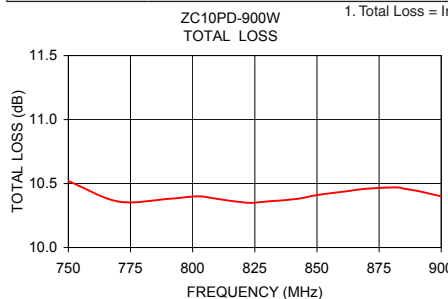
FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 10 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
$f_c - f_u$	Typ. Min.	Typ. Max.	Max.	Max.
750-900	30 20	0.4 1.0	—	0.6

VSWR, input 1.2:1 typ., 1.6:1 max; output 1.2:1 typ., 1.35:1 max.

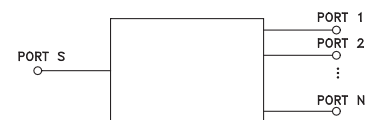
### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	1-5			
750.00	10.52	0.19	28.33	29.42	6.46	1.29	1.12
770.00	10.36	0.13	30.23	31.56	6.51	1.24	1.12
790.00	10.38	0.14	32.67	34.32	6.72	1.19	1.12
802.00	10.40	0.12	34.49	36.49	6.81	1.16	1.12
810.00	10.38	0.13	35.91	38.26	6.80	1.15	1.12
822.00	10.35	0.13	38.68	41.48	6.80	1.13	1.12
830.00	10.36	0.13	41.08	43.73	6.84	1.12	1.12
842.00	10.38	0.11	45.39	44.29	6.98	1.13	1.12
850.00	10.41	0.13	46.80	42.31	7.13	1.14	1.13
862.00	10.44	0.15	43.33	38.86	7.25	1.18	1.13
870.00	10.46	0.15	40.54	36.90	7.29	1.21	1.13
882.00	10.47	0.15	37.25	34.54	7.24	1.26	1.14
885.00	10.46	0.16	36.56	34.02	7.27	1.27	1.14
891.00	10.44	0.14	35.31	33.02	7.30	1.30	1.14
900.00	10.40	0.17	33.71	31.71	7.45	1.35	1.14

1. Total Loss = Insertion Loss + 10dB 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.
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