

Coaxial

Power Splitter/Combiner

9 Way-0° 50Ω 1200 to 1700 MHz

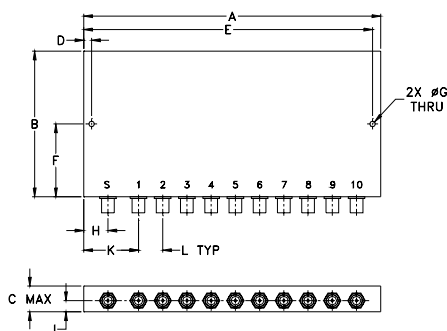
Maximum Ratings

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(COM)
PORT 1,2,3,.....,9	1,2,3,.....,9

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

Electrical Schematic



Features

- useable from 1100 to 1700 MHz
- low insertion loss, 0.6 dB typ.
- high isolation, 18 dB typ.
- excellent output VSWR, 1.2:1 typ.
- rugged shielded case

Applications

- GPS
- instrumentation
- signal processing

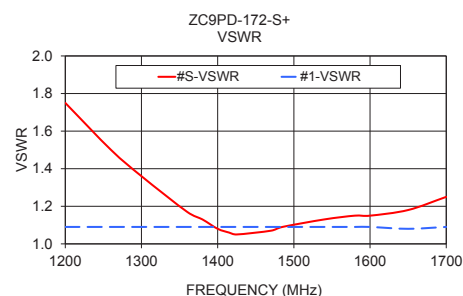
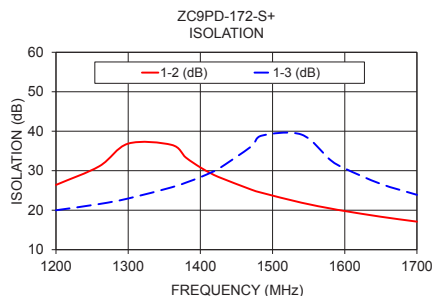
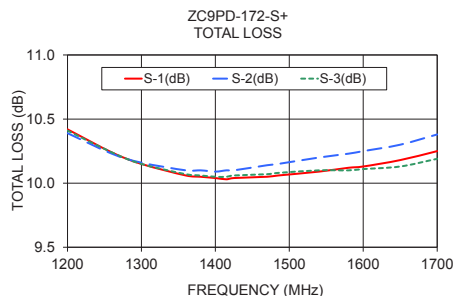
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1200	—	1700	MHz
Insertion Loss Above 9.6 dB	1200 - 1700	—	0.6	1.5	dB
Isolation	1200 - 1500 1500 - 1700	17 13	20 18	—	dB
Phase Unbalance	1200 - 1700	—	7.0	10	Degree
Amplitude Unbalance	1200 - 1700	—	0.4	0.8	dB
VSWR Input	1200 - 1300 1300 - 1700	— —	1.5 1.2	2.0 1.7	:1
VSWR Output	1200 - 1700	—	1.2	1.5	:1

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)			Amplitude Unbalance (dB)	Isolation (dB)		Phase unbalance (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3				
1200.00	10.42	10.39	10.41	0.14	26.40	19.98	6.01	1.75	1.09	1.09
1260.00	10.24	10.23	10.24	0.15	31.13	21.56	6.42	1.50	1.09	1.10
1300.00	10.15	10.16	10.15	0.16	36.86	22.96	6.63	1.36	1.09	1.10
1360.00	10.06	10.10	10.07	0.20	36.55	25.78	6.93	1.17	1.09	1.04
1380.00	10.05	10.10	10.06	0.23	33.32	26.98	6.98	1.13	1.09	1.03
1400.00	10.04	10.09	10.05	0.25	30.83	28.36	7.05	1.08	1.09	1.03
1415.00	10.03	10.10	10.05	0.26	29.30	29.56	7.11	1.06	1.09	1.03
1425.00	10.04	10.10	10.06	0.27	28.42	30.45	7.15	1.05	1.09	1.03
1470.00	10.05	10.14	10.07	0.33	25.25	36.08	7.28	1.07	1.09	1.03
1485.00	10.06	10.15	10.08	0.33	24.41	38.88	7.33	1.09	1.09	1.04
1540.00	10.09	10.20	10.10	0.36	21.90	39.16	7.52	1.13	1.09	1.10
1580.00	10.12	10.23	10.10	0.42	20.44	32.73	7.43	1.15	1.09	1.05
1600.00	10.13	10.25	10.11	0.42	19.79	30.57	7.40	1.15	1.09	1.10
1650.00	10.18	10.30	10.13	0.39	18.34	26.65	7.71	1.18	1.08	1.10
1700.00	10.25	10.38	10.19	0.42	17.10	23.89	8.35	1.25	1.09	1.10

1. Total Loss = Insertion Loss + 9.6dB theoretical splitter loss.



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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ZC9PD-172-S+



CASE STYLE: AB204

Connectors Model
SMA ZC9PD-172-S+

+RoHS Compliant

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

HT-Series
Tight Spot
SMA Wrench

REV. C
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