

Coaxial

Power Splitter/Combiner

ZC9PD-172+

9 Way-0° 50Ω 1200 to 1700 MHz

Maximum Ratings

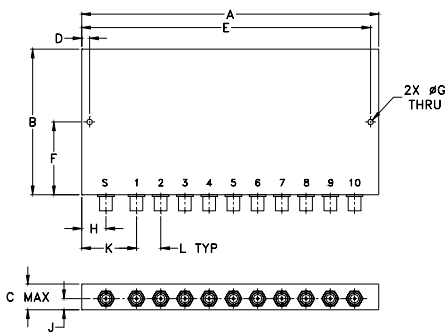
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1.5W max.

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



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

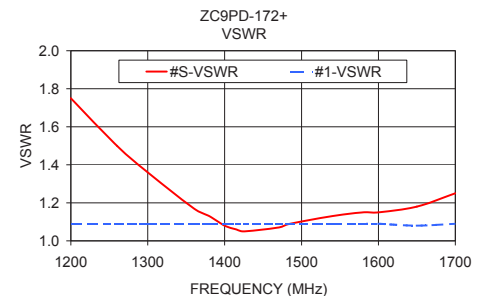
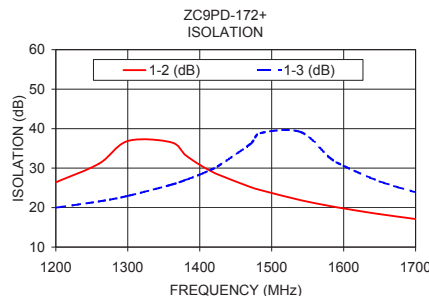
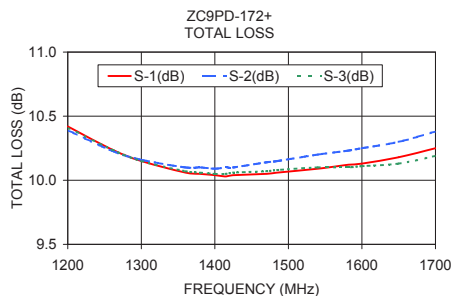
Electrical Specifications at 25°C

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

- 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-Circuit's 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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp



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