

Power Splitter/Combiner

ZN2PD-1900+
ZN2PD-1900

2 Way-0° 50Ω 1600 to 1900 MHz



CASE STYLE: VVV180

Connectors	Model
SMA	ZN2PD-1900(+)

+RoHS Compliant

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

Maximum Ratings

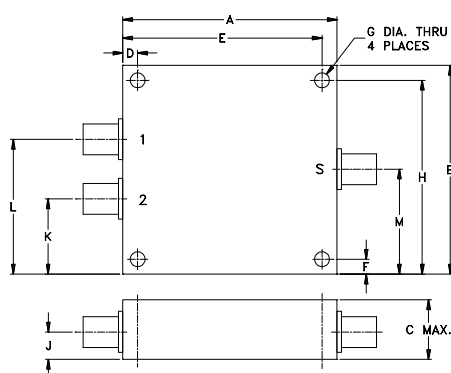
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.
DC Current	1.0 A (500mA for each port)

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
1.80	1.75	.66	.125	1.675	.125	.125
45.72	44.45	16.76	3.18	42.55	3.18	3.18

H	J	K	L	M	wt
1.625	.31	.63	1.13	.88	grams
41.28	7.87	16.00	28.70	22.35	65.2

Features

- low insertion loss, 0.18 dB typ.
- high isolation, 30 dB typ.
- up to 10W power input as a splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- PCS/DCS
- GPS
- communications systems
- instrumentations

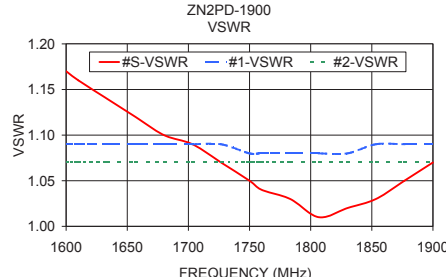
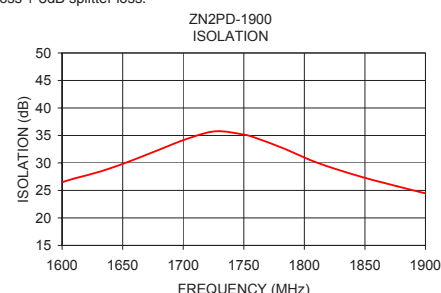
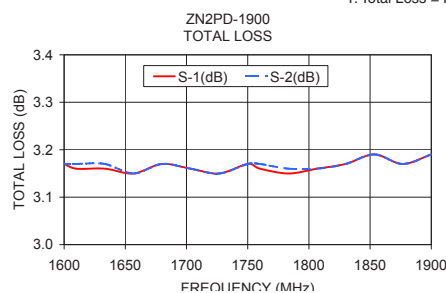
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	S		OUT	
1600-1900	30	20	0.18	0.4	2	0.2	Typ.	Max.	Typ.	Max.

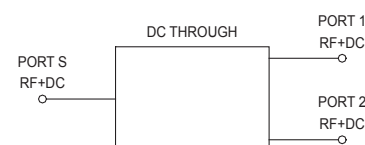
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
1600.00	3.17	3.17	0.00	26.50	1.17	1.09	1.07
1610.00	3.16	3.17	0.01	27.17	1.16	1.09	1.07
1633.33	3.16	3.17	0.00	28.56	1.14	1.09	1.07
1656.66	3.15	3.15	0.00	30.38	1.12	1.09	1.07
1680.00	3.17	3.17	0.00	32.40	1.10	1.09	1.07
1703.33	3.16	3.16	0.01	34.40	1.09	1.09	1.07
1726.66	3.15	3.15	0.00	35.76	1.07	1.09	1.07
1750.00	3.17	3.17	0.00	35.15	1.05	1.08	1.07
1760.00	3.16	3.17	0.01	34.54	1.04	1.08	1.07
1783.33	3.15	3.16	0.00	32.60	1.03	1.08	1.07
1806.66	3.16	3.16	0.00	30.37	1.01	1.08	1.07
1830.00	3.17	3.17	0.00	28.61	1.02	1.08	1.07
1853.33	3.19	3.19	0.00	27.10	1.03	1.09	1.07
1876.66	3.17	3.17	0.00	25.75	1.05	1.09	1.07
1900.00	3.19	3.19	0.00	24.47	1.07	1.09	1.07

1. Total Loss = Insertion Loss + 3dB splitter loss.



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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