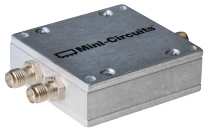
DC Pass

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

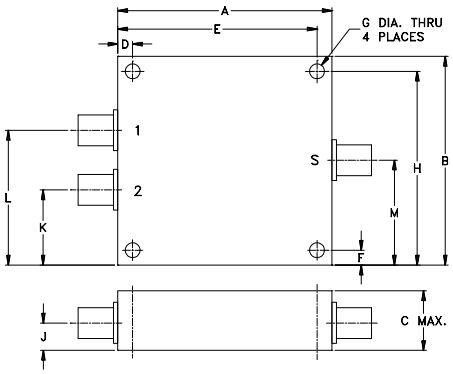
Features

- 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

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

Electrical Specifications

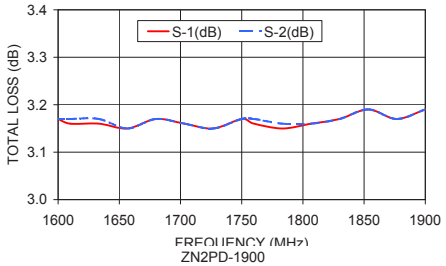
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
1600-1900	30	20	0.18	0.4	2	0.2	1.2	1.35	1.04	1.20

Typical Performance Data

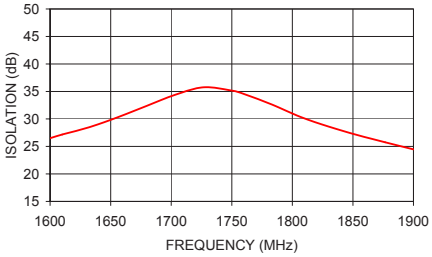
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
1600.00	3.17	3.17	0.00	26.50	1.17	1.09	1.07
1610.00	3.16	3.17	0.01	27.17	1.16	1.09	1.07
1633.33	3.16	3.17	0.00	28.56	1.14	1.09	1.07
1656.66	3.15	3.15	0.00	30.38	1.12	1.09	1.07
1680.00	3.17	3.17	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.

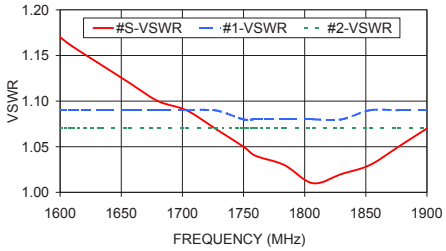
ZN2PD-1900
TOTAL LOSS



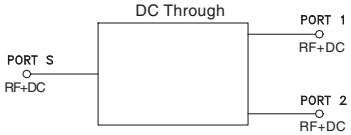
ZN2PD-1900
ISOLATION



ZN2PD-1900
VSWR



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.
C. The parts covered by this specification document are subject to Mini-Circuits 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp