

# Power Splitter/Combiner

## ZN2PD-1900W+

2 Way-0° 50Ω 1500 to 2000 MHz



CASE STYLE: VVV180

Connectors	Model
SMA	ZN2PD-1900W-S+

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

### Maximum Ratings

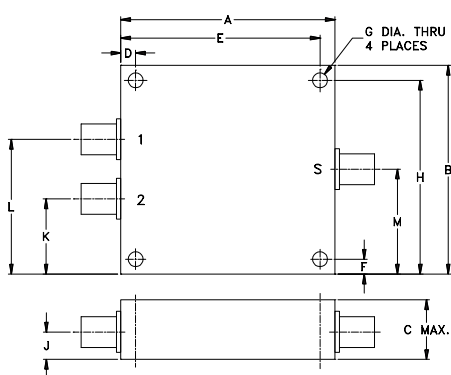
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.
DC Current	1.0 A (500mA for each port)

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

### Coaxial Connections

SUPPORT	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, 0.2 dB typ.
- good isolation, 24 dB typ.
- up to 10W power input as a splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

### Applications

- PCS/DCS
- GPS
- communications systems
- instrumentations

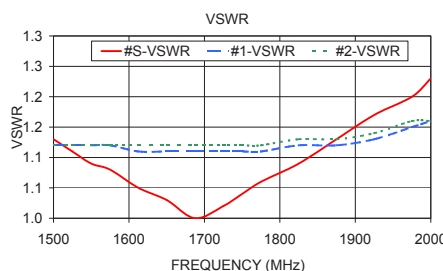
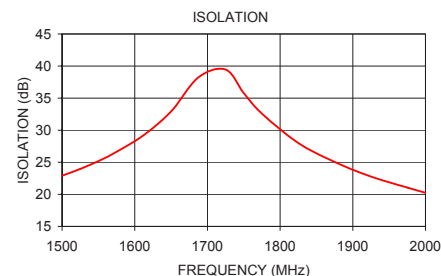
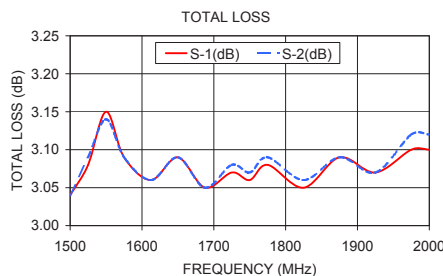
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
$f_c - f_u$					Max.	Max.	Typ.	Max.	Typ.	Max.
1500-2000	24	15	0.2	0.5	3	0.3	1.20	1.50	1.04	1.20

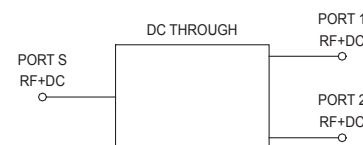
### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1500.00	3.04	3.04	0.00	22.90	0.09	1.13	1.12	1.12
1525.00	3.08	3.09	0.00	23.96	0.16	1.11	1.12	1.12
1550.00	3.15	3.14	0.01	25.18	0.13	1.09	1.12	1.12
1575.00	3.09	3.09	0.00	26.64	0.09	1.08	1.12	1.12
1612.50	3.06	3.06	0.00	29.24	0.16	1.05	1.11	1.12
1650.00	3.09	3.09	0.00	32.93	0.11	1.03	1.11	1.12
1687.50	3.05	3.05	0.01	38.23	0.18	1.00	1.11	1.12
1725.00	3.07	3.08	0.01	39.45	0.12	1.02	1.11	1.12
1750.00	3.06	3.07	0.01	35.77	0.13	1.04	1.11	1.12
1775.00	3.08	3.09	0.00	32.58	0.18	1.06	1.11	1.12
1825.00	3.05	3.06	0.01	28.01	0.11	1.09	1.12	1.13
1875.00	3.09	3.09	0.00	25.05	0.22	1.13	1.12	1.13
1925.00	3.07	3.07	0.00	22.78	0.23	1.17	1.13	1.14
1975.00	3.10	3.12	0.02	21.05	0.23	1.20	1.15	1.16
2000.00	3.10	3.12	0.02	20.25	0.19	1.23	1.16	1.16

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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