

# Power Splitter/Combiner

## ZN2PD-20-S+

2 Way-0° 50Ω 750 to 2000 MHz



Generic photo used for illustration purposes only

CASE STYLE: VVV180

Connectors	Model
SMA	ZN2PD-20-S+

**+RoHS Compliant**

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

### Maximum Ratings

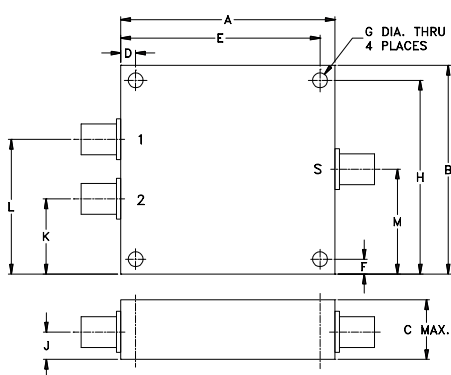
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	0.725W max.

DC Current 800 mA (400mA 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

- wideband, 750 to 2000 MHz
- low insertion loss, 0.2 dB typ.
- good isolation, 23 dB typ.
- very good input VSWR, 1.18:1 typ.
- excellent output VSWR, 1.07:1 typ.
- up to 5W power input

### Applications

- VSAT
- communications systems
- instrumentations

### Electrical Specifications

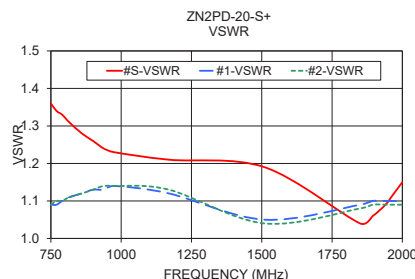
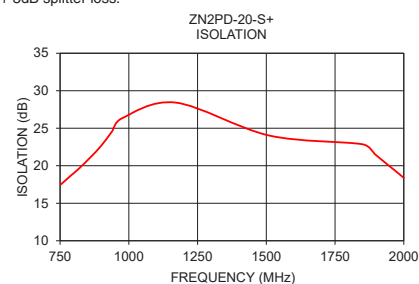
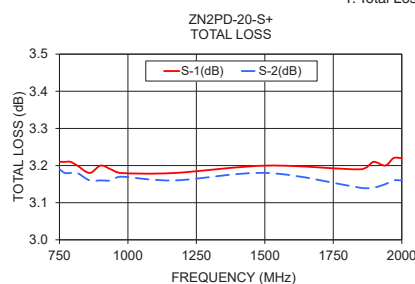
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)		
	L	M	U	Typ.	Max.			S	OUT	
f <sub>L</sub> -f <sub>U</sub>	Typ.	Min.	Typ.	Min.	Typ.	Min.	Max.	Max.	Typ.	Max.
750-2000	18	15	25	20	18	15	0.2	0.5	4	0.3
	1.16	1.5	1.10	1.35						

L = 750-875 MHz M = 875-1850 MHz U = 1850-2000 MHz

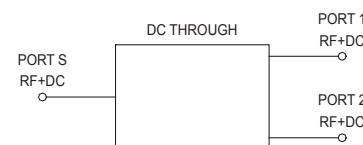
### Typical Performance Data

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						
750.0	3.21	3.19	0.02	17.43	0.23	1.36	1.09	1.09
770.0	3.21	3.18	0.03	18.06	0.30	1.34	1.09	1.10
790.0	3.21	3.18	0.03	18.72	0.29	1.33	1.10	1.10
815.0	3.20	3.18	0.02	19.50	0.31	1.31	1.11	1.11
860.0	3.18	3.16	0.02	21.11	0.36	1.28	1.12	1.12
900.0	3.20	3.16	0.04	22.69	0.39	1.26	1.13	1.13
937.5	3.19	3.16	0.02	24.50	0.45	1.24	1.13	1.14
975.0	3.18	3.17	0.01	26.32	0.40	1.23	1.14	1.14
1170.0	3.18	3.16	0.02	28.42	0.42	1.21	1.12	1.13
1510.0	3.20	3.18	0.02	24.03	0.57	1.19	1.05	1.04
1850.0	3.19	3.14	0.05	22.86	0.51	1.04	1.09	1.08
1895.0	3.21	3.14	0.06	21.54	0.53	1.06	1.10	1.09
1940.0	3.20	3.15	0.06	20.18	0.51	1.09	1.10	1.09
1970.0	3.22	3.16	0.06	19.30	0.54	1.12	1.10	1.09
2000.0	3.22	3.16	0.06	18.38	0.54	1.15	1.10	1.09

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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