

Power Splitter/Combiner

ZN2PD1-63+

2 Way-0° 50Ω 0.5 to 6 GHz

Maximum Ratings

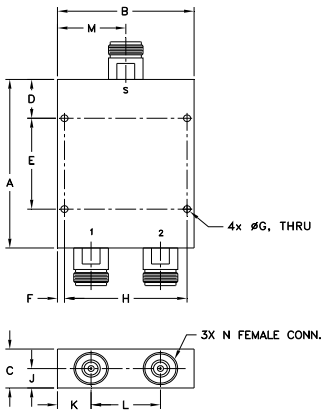
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	30W max.
Power Input (as a combiner)	0.5W/port max.
DC Current	1.2A/port max.

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

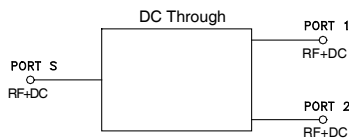
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
3.25	2.46	.75	.75	1.750	.11	.129
82.55	62.48	19.05	19.05	44.45	2.79	3.28
H	J	K	L	M	wt	
2.250	.38	.61	1.250	1.23	grams	
57.15	9.65	15.49	31.75	31.24	280	

Electrical Schematic



Features

- wideband, 0.5 to 6 GHz
- excellent amplitude unbalance, 0.1 dB typ.
- low insertion loss, 0.45 dB typ.
- up to 30W power input as splitter

Applications

- ISM
- test and measurement
- Lab



Generic photo used for illustration purposes only

CASE STYLE: VVV2609

Connectors	Model
N-Female	ZN2PD1-63-N+

+RoHS Compliant

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

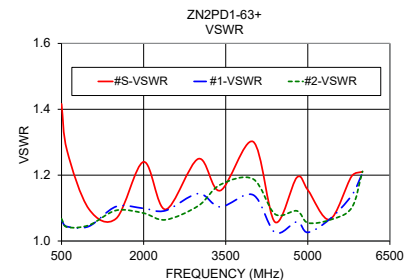
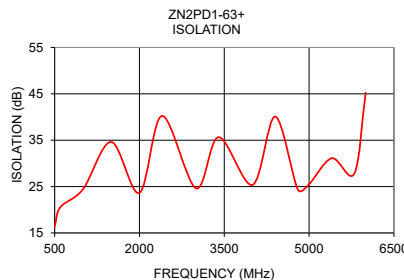
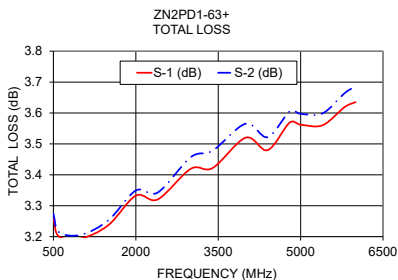
Electrical Specifications

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		0.5		6	GHz
Insertion Loss (above 3.0 dB)	0.5 - 6	—	0.45	0.9	dB
Isolation	0.5 - 0.6	14	18	—	dB
	0.6 - 6	18	22	—	dB
Phase Unbalance	0.5 - 6	—	1.5	3.0	Degree
Amplitude Unbalance	0.5 - 6	—	0.1	0.3	dB
VSWR (Port S)	0.5 - 0.6	—	1.45	1.6	:1
	0.6 - 6	—	1.3	1.45	:1
VSWR (Port 1-2)	0.5 - 6	—	1.2	1.25	:1

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500	3.26	3.27	0.02	16.30	0.01	1.42	1.06	1.07
600	3.20	3.21	0.01	20.55	0.02	1.28	1.04	1.04
1000	3.19	3.21	0.01	24.40	0.04	1.10	1.04	1.05
1500	3.24	3.25	0.02	34.63	0.09	1.07	1.10	1.09
2000	3.33	3.35	0.02	23.62	0.11	1.24	1.10	1.08
2400	3.32	3.34	0.02	40.24	0.10	1.10	1.09	1.06
3000	3.42	3.46	0.04	24.61	0.12	1.25	1.14	1.11
3400	3.42	3.48	0.06	35.65	0.22	1.15	1.10	1.17
4000	3.52	3.57	0.05	25.36	0.36	1.30	1.14	1.19
4400	3.48	3.52	0.04	40.10	0.42	1.06	1.03	1.08
4800	3.57	3.61	0.04	24.36	0.48	1.19	1.06	1.09
5000	3.56	3.60	0.04	25.51	0.50	1.16	1.03	1.06
5400	3.56	3.60	0.04	31.12	0.52	1.07	1.07	1.06
5800	3.62	3.66	0.05	27.80	0.55	1.20	1.14	1.10
6000	3.64	3.69	0.05	45.22	0.59	1.21	1.21	1.21

1. Total Loss = Insertion Loss + 3dB 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.
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