

# Power Splitter/Combiner

## ZN2PD1-222-S+

2 Way-0° 50Ω 600 to 2200 MHz

### Maximum Ratings

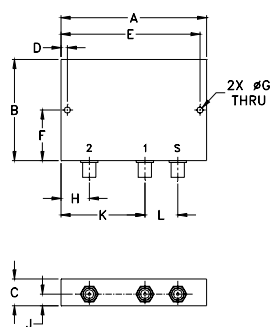
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.25W max.
DC Current	800 mA (400mA for each port)

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
2.88	2.00	.53	.125	2.750	1.000
73.15	50.80	13.46	3.18	69.85	25.40
G	H	J	K	L	wt
.125	.56	.24	1.66	.65	grams
3.18	14.22	6.10	42.16	16.51	100

### Features

- low insertion loss, 0.3 dB typ.
- good isolation, 22 dB typ.
- very good input VSWR, 1.2:1 typ.
- excellent output VSWR, 1.15:1 typ.

### Applications

- cellular
- GPS
- PCS
- GSM
- WCDMA
- DCS
- PDC

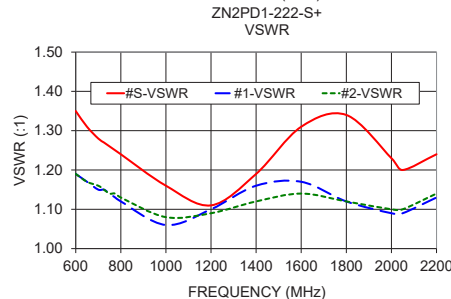
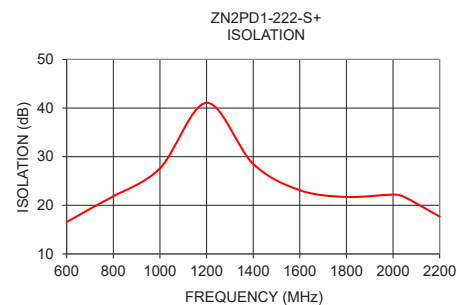
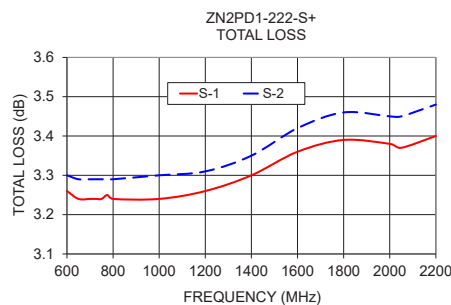
### Electrical Specifications

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 Typ.	S Max.	OUT Typ.	OUT Max.
$f_L$ - $f_U$					Max.	Max.				
600-725	18	14	0.2	0.5	2	0.2	1.25	1.6	1.15	1.3
725-2050	22	16	0.3	0.7	3	0.3	1.2	1.6	1.15	1.3
2050-2200	20	15	0.3	0.8	3	0.4	1.2	1.6	1.1	1.3

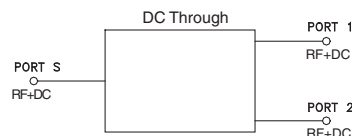
### Typical Performance Data

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						
600.00	3.26	3.30	0.04	16.55	0.01	1.35	1.19	1.19
650.00	3.24	3.29	0.05	17.91	0.04	1.31	1.17	1.17
700.00	3.24	3.29	0.04	19.26	0.03	1.28	1.15	1.16
725.00	3.24	3.29	0.05	19.92	0.02	1.27	1.15	1.15
750.00	3.24	3.29	0.05	20.57	0.01	1.26	1.14	1.14
775.00	3.25	3.29	0.04	21.21	0.05	1.25	1.13	1.14
800.00	3.24	3.29	0.05	21.86	0.03	1.24	1.12	1.13
1000.00	3.24	3.30	0.06	27.59	0.02	1.16	1.06	1.08
1200.00	3.26	3.31	0.05	41.07	0.05	1.11	1.10	1.09
1400.00	3.30	3.35	0.05	28.51	0.07	1.19	1.16	1.12
1600.00	3.36	3.42	0.06	23.11	0.08	1.31	1.17	1.14
1800.00	3.39	3.46	0.07	21.72	0.17	1.34	1.12	1.12
2000.00	3.38	3.45	0.08	22.20	0.21	1.23	1.09	1.10
2050.00	3.37	3.45	0.08	21.66	0.21	1.20	1.09	1.10
2200.00	3.40	3.48	0.09	17.69	0.22	1.24	1.13	1.14

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



### electrical schematic



### 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.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



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CASE STYLE: AB762

Connectors	Model
SMA	ZN2PD1-222-S+

+RoHS Compliant

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