

Coaxial

# Power Splitter/Combiner

## ZN12PD-252-S+

12 Way-0° 50Ω 800 to 2450 MHz

### Maximum Ratings

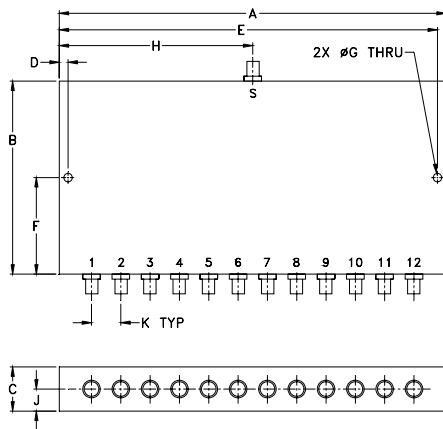
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1.5W max.

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

### Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,12	1,2,3,.....,12

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F
6.60	3.28	.75	.150	6.45	1.64
167.64	83.31	19.05	3.81	163.83	41.66
G	H	J	K	wt	
.144	3.30	.38	.500	grams	
3.66	83.82	9.65	12.70	370	

### Features

- low insertion loss, 0.5 dB typ.
- high isolation, 23 dB typ.
- excellent VSWR, 1.2:1 typ.
- excellent amplitude unbalance, 0.3 dB typ.

### Applications

- instrumentation
- PCS
- GSM
- cellular
- cellular
- WCDMA
- PDC
- radar



CASE STYLE: UU589

Connectors	Model
SMA	ZN12PD-252-S+

+RoHS Compliant

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

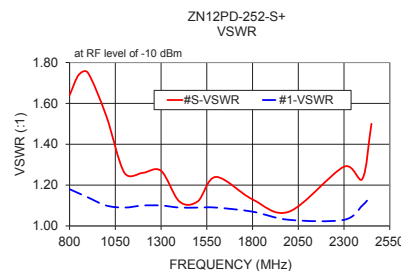
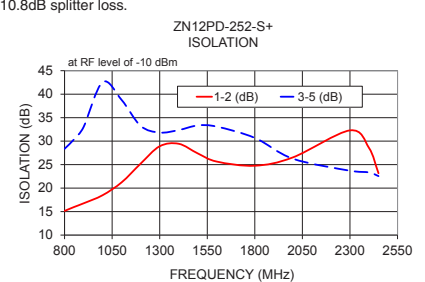
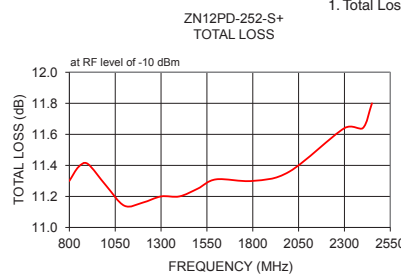
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 10.8 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Adjacent Typ.	Opposite Min.	Typ.	Max.			S Typ.	OUT Typ.
800-1000	16	33	0.45	1.0	5	0.5	1.6	1.2
1000-2450	23	30	0.6	1.4	8	0.7	1.2	1.1

### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			Adjacent	Opposite			
800.00	11.30	0.33	15.14	28.37	2.36	1.64	1.18
850.00	11.39	0.32	15.98	30.39	2.52	1.74	1.16
900.00	11.41	0.32	16.76	33.00	2.56	1.75	1.14
1000.00	11.27	0.32	18.49	42.57	2.96	1.54	1.10
1100.00	11.14	0.33	21.23	38.77	3.07	1.26	1.09
1200.00	11.16	0.33	25.22	33.25	3.15	1.26	1.10
1300.00	11.20	0.32	28.91	31.83	3.15	1.27	1.10
1400.00	11.20	0.28	29.44	32.36	3.31	1.12	1.09
1500.00	11.25	0.23	27.39	33.34	3.29	1.12	1.09
1600.00	11.31	0.20	25.65	33.09	3.54	1.24	1.09
1800.00	11.30	0.15	24.77	30.69	4.08	1.13	1.07
2000.00	11.36	0.17	26.54	26.26	4.96	1.07	1.03
2300.00	11.64	0.31	32.29	23.70	5.94	1.29	1.03
2400.00	11.64	0.27	28.56	23.35	6.19	1.23	1.10
2450.00	11.80	0.26	23.16	22.56	6.16	1.50	1.15

1. Total Loss = Insertion Loss + 10.8dB 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-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/WCLStore/terms.jsp](http://www.minicircuits.com/WCLStore/terms.jsp)

