

Coaxial

Power Splitter/Combiner

12 Way-0°

50Ω

800 to 1700 MHz

ZN12PD-17

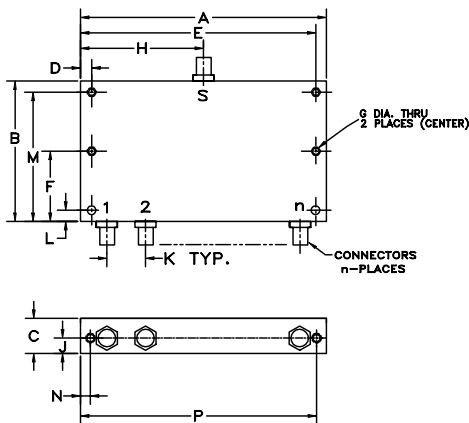
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	2W max.

Coaxial Connections

SUM PORT	S
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, 0.45 dB typ.
- high isolation, 30 dB typ.
- excellent VSWR, 1.1:1 typ.
- excellent amplitude unbalance, 0.2 dB typ.
- up to 5W power output as splitter
- rugged, shielded case

Applications

- instrumentation
- cellular
- PCN
- GPS
- satellite distribution

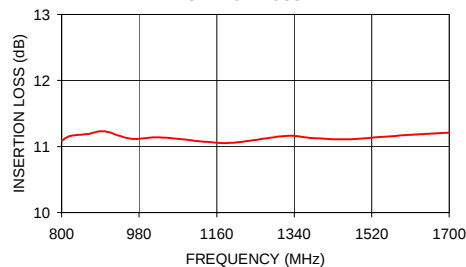
Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 10.8 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
$f_L - f_U$	Typ. Min.	Typ. Max.	Max.	Max.	S Typ. Max. OUT Typ. Max.
800-1700	30 18	0.45 1.2	14	0.7	1.2 1.6 1.1 1.4

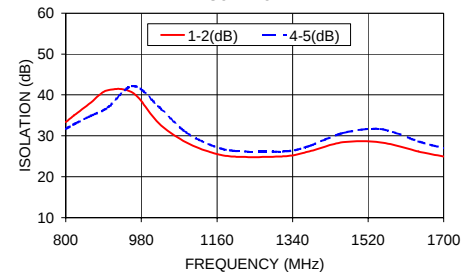
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB) 1-2	Isolation (dB) 4-5	Phase Unbalance (deg.)	VSWR S	VSWR 12
800.00	11.09	0.19	33.36	31.69	2.53	1.37	1.07
820.00	11.16	0.20	34.98	32.87	2.26	1.42	1.07
860.00	11.19	0.27	38.14	34.91	2.79	1.48	1.07
900.00	11.23	0.19	41.15	36.91	2.82	1.47	1.08
960.00	11.12	0.18	40.49	42.16	2.80	1.38	1.09
1020.00	11.14	0.14	33.25	37.29	2.91	1.25	1.10
1080.00	11.11	0.12	28.79	31.36	2.89	1.15	1.11
1140.00	11.07	0.11	26.19	28.00	3.13	1.14	1.11
1200.00	11.06	0.09	24.92	26.36	3.92	1.15	1.10
1320.00	11.16	0.12	25.00	26.18	4.11	1.15	1.09
1380.00	11.13	0.12	26.21	27.53	4.08	1.12	1.08
1460.00	11.11	0.18	28.45	30.68	4.06	1.04	1.08
1550.00	11.15	0.22	28.40	31.64	4.45	1.09	1.09
1640.00	11.19	0.21	26.18	28.65	4.61	1.18	1.08
1700.00	11.21	0.19	24.96	26.95	4.73	1.16	1.07

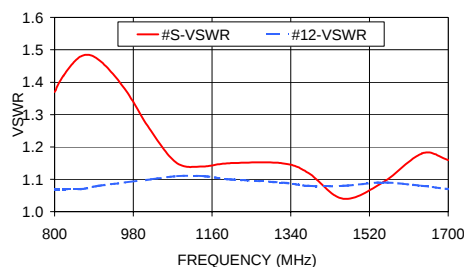
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INSERTION LOSS



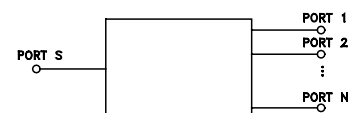
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ISOLATION



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VSWR



electrical schematic



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