

Power Splitter/Combiner

ZB16PD-272-75F+

16 Way-0° 75Ω 695 to 2700 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5.0W max.
DC Current	1A (125mA each)

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

Coaxial Connections

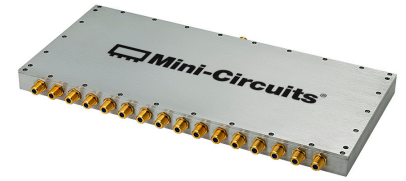
SUM PORT	S
PORT 1,2,3...16	1,2,3...16

Features

- low insertion loss, 1.0 dB typ.
- excellent input and output VSWR, 1.4:1 typ.
- very high isolation, 24 dB typ.

Applications

- CATV
- WiMAX
- PCS/DCS
- L-Band



CASE STYLE: UU537

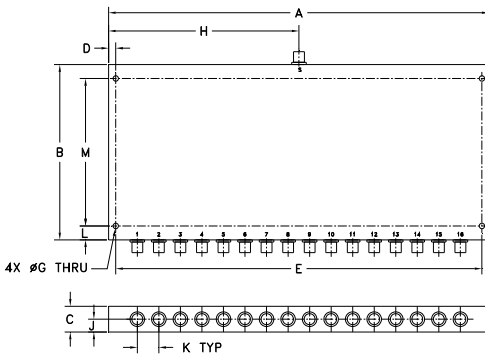
Connectors	Model
75Ω F-Type	ZB16PD-272-75F+

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

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency		695		2700	MHz
Insertion Loss (above theoretical 12 dB)	900 - 2450	—	1.0	1.9	dB
	695 - 2700	—	1.2	2.2	
Isolation	695 - 2450	18	24	—	dB
	2450 - 2700	14	20	—	
Phase Unbalance	695 - 2700	—	5	11	Degree
Amplitude Unbalance	900 - 2450	—	0.3	0.7	dB
	695 - 2700	—	0.5	0.9	
VSWR (Port S)	900 - 2450	—	1.5	1.85	:1
VSWR (Port 1, 16)	900 - 2450	—	1.4	1.65	:1

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
13.25	6.00	.88	.250	12.75	--	.187
336.55	152.40	22.35	6.35	323.85	--	4.75

H	J	K	L	M	N	wt
6.63	.44	.75	.48	5.05	--	grams
168.40	11.18	19.05	12.19	128.27	--	2080

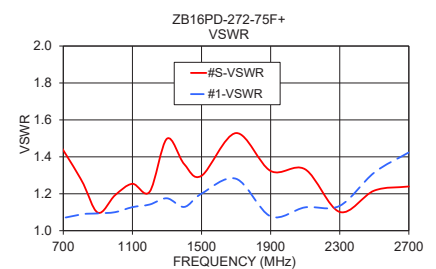
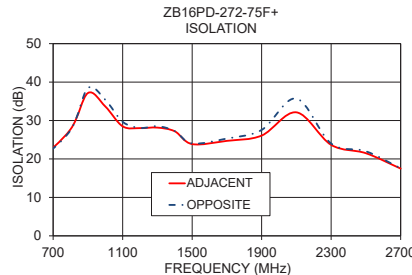
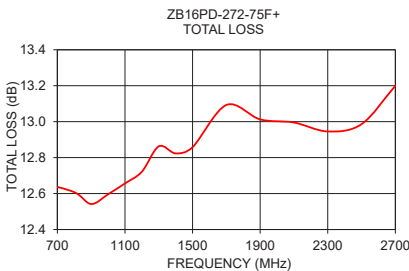
Electrical Schematic



Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			ADJ	OPP			
600	12.66	0.07	18.72	18.62	1.82	1.59	1.05
800	12.61	0.06	27.71	27.48	2.54	1.28	1.09
900	12.54	0.06	37.15	38.42	2.76	1.10	1.09
1000	12.60	0.08	33.67	35.40	3.03	1.19	1.10
1100	12.66	0.09	28.49	29.68	3.34	1.25	1.13
1200	12.72	0.23	28.03	28.07	3.49	1.21	1.14
1300	12.86	0.14	28.16	28.52	3.45	1.50	1.18
1400	12.82	0.10	27.20	27.26	3.62	1.36	1.13
1500	12.86	0.12	23.87	24.05	3.66	1.30	1.20
1700	13.09	0.17	24.71	25.32	4.34	1.53	1.28
1900	13.01	0.08	26.09	27.55	5.79	1.32	1.08
2100	13.00	0.09	32.13	35.72	6.14	1.33	1.13
2300	12.95	0.18	23.67	24.02	6.77	1.10	1.13
2500	12.99	0.31	21.49	22.00	7.46	1.22	1.31
2700	13.20	0.47	17.50	17.58	7.10	1.24	1.42

1. Total Loss = Insertion Loss + 12dB splitter theoretical 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-Circuits' applicable established test performance criteria and measurement instructions.
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