

Coaxial

Power Splitter/Combiner

ZB16PD-72-S+

16 Way-0° 50Ω 400 to 700 MHz

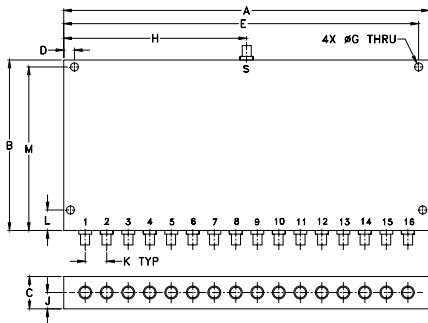
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
11.00	4.00	.88	.250	10.75	--	.187
279.40	101.60	22.35	6.35	273.05	--	4.75
H	J	K	L	M	wt	
5.50	.44	.66	.25	3.75	grams	
139.70	11.18	16.76	6.35	95.25	1130	

Features

- low insertion loss, 0.7 dB typ.
- excellent input VSWR, 1.10:1 typ.
- excellent output VSWR, 1.05:1 typ.
- very high isolation, 30 dB typ.

Applications

- UHF TV/DTV
- CDMA
- GSM



CASE STYLE: UU573

Connectors	Model
SMA	ZB16PD-72-S+

+RoHS Compliant

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

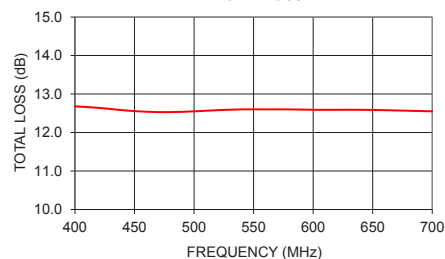
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 12 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	S		OUT	
							Typ.	Max.	Typ.	Max.
400-700	30	20	0.7	1.4	8	0.6	1.10	1.6	1.05	1.3

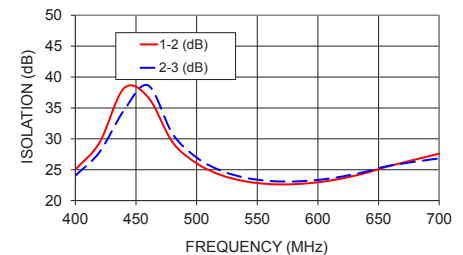
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR OUT
	S-1		1-2	2-3			
400.00	12.68	0.42	25.02	24.04	2.57	1.48	1.08
420.00	12.64	0.23	29.43	27.87	2.65	1.42	1.09
440.00	12.58	0.13	38.18	34.59	2.86	1.33	1.09
460.00	12.54	0.17	36.71	38.65	2.93	1.22	1.09
480.00	12.53	0.29	29.48	30.86	2.98	1.12	1.08
500.00	12.55	0.35	26.03	26.96	3.84	1.06	1.06
520.00	12.58	0.35	24.14	24.85	5.03	1.06	1.06
540.00	12.60	0.26	23.12	23.71	6.03	1.09	1.06
560.00	12.60	0.20	22.68	23.18	6.44	1.12	1.07
580.00	12.60	0.18	22.65	23.09	6.43	1.14	1.08
600.00	12.59	0.24	22.97	23.35	5.92	1.14	1.10
620.00	12.59	0.29	23.59	23.90	5.19	1.13	1.11
640.00	12.59	0.34	24.50	24.71	4.74	1.11	1.12
660.00	12.58	0.38	25.65	25.69	4.55	1.10	1.13
700.00	12.55	0.45	27.60	26.84	4.97	1.20	1.13

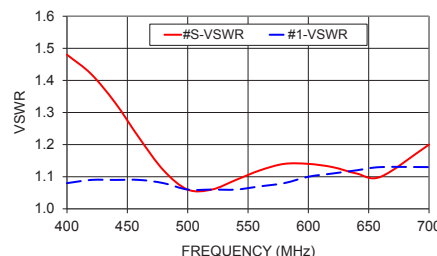
ZB16PD-72-S+
TOTAL LOSS



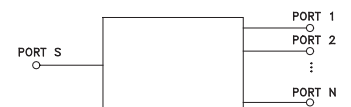
ZB16PD-72-S+
ISOLATION



ZB16PD-72-S+
VSWR



electrical schematic



Notes

- A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. 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



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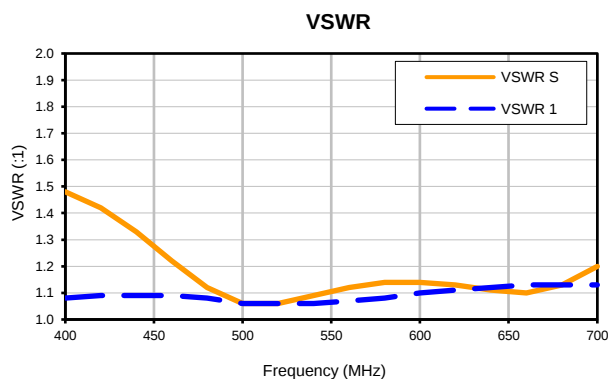
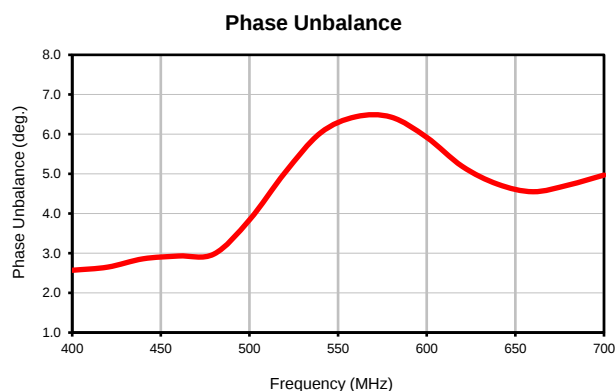
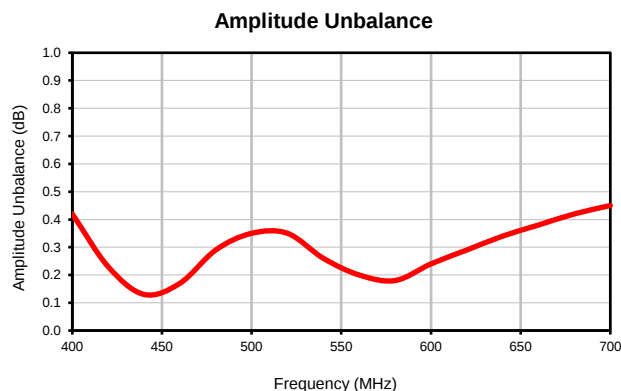
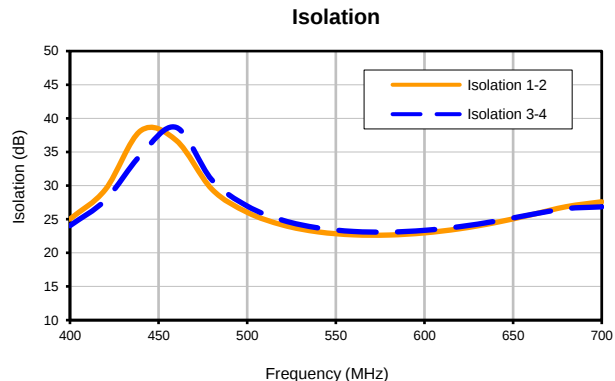
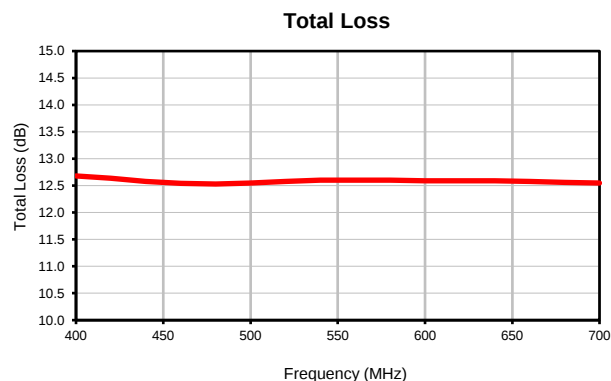
REV. C
M171494
ED-7000/1
ZB16PD-72-S+
HY/TD/CP/AM
181226

Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB) S-1	AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)		PHASE UNBALANCE (deg.)	FREQUENCY (MHz)	VSWR (:1)	
			1-2	3-4			S	1
400	12.68	0.42	25.02	24.04	2.57	400.0	1.48	1.08
420	12.64	0.23	29.43	27.87	2.65	420.0	1.42	1.09
440	12.58	0.13	38.18	34.59	2.86	440.0	1.33	1.09
460	12.54	0.17	36.71	38.65	2.93	460.0	1.22	1.09
480	12.53	0.29	29.48	30.86	2.98	480.0	1.12	1.08
500	12.55	0.35	26.03	26.96	3.84	500.0	1.06	1.06
520	12.58	0.35	24.14	24.85	5.03	520.0	1.06	1.06
540	12.60	0.26	23.12	23.71	6.03	540.0	1.09	1.06
560	12.60	0.20	22.68	23.18	6.44	560.0	1.12	1.07
580	12.60	0.18	22.65	23.09	6.43	580.0	1.14	1.08
600	12.59	0.24	22.97	23.35	5.92	600.0	1.14	1.10
620	12.59	0.29	23.59	23.90	5.19	620.0	1.13	1.11
640	12.59	0.34	24.50	24.71	4.74	640.0	1.11	1.12
660	12.58	0.38	25.65	25.69	4.55	660.0	1.10	1.13
680	12.56	0.42	26.87	26.58	4.72	680.0	1.13	1.13
700	12.55	0.45	27.60	26.84	4.97	700.0	1.20	1.13

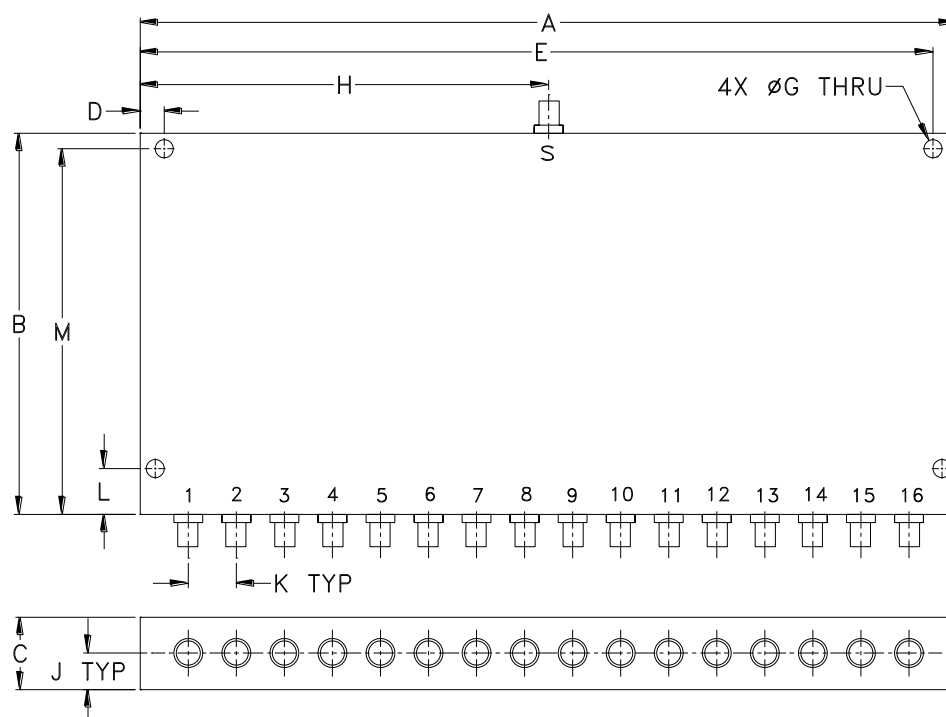
¹Total Loss = Insertion Loss + 12dB Splitter Loss

Typical Performance Curves



Outline Dimensions

UU573



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
UU573	13.25 (336.55)	6.00 (152.40)	.88 (22.35)	.250 (6.35)	12.75 (323.85)	--	.187 (4.75)	6.63 (168.40)	.44 (11.18)	.75 (19.05)	.48 (12.19)	5.05 (128.27)	2080

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Refer to the individual model data sheet for the type of connectors available.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B