

Power Splitter/Combiner

ZAPD-20+

2 Way-0° 50Ω 700 to 2000 MHz



N-Type version shown

CASE STYLE: F53

Connectors	Model
N-TYPE	ZAPD-20-N+
SMA	ZAPD-20-S+

+RoHS Compliant

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

Maximum Ratings

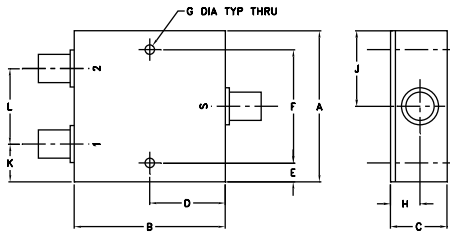
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.
DC Current	500 mA (250mA for each port)

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	G
2.00	2.00	.75	1.00	.13	1.750	.125
50.80	50.80	19.05	25.40	3.30	44.45	3.18
H	J	K	L	wt		
.39	1.00	.50	1.00	grams		
9.91	25.40	12.70	25.40	170.0		

Features

- wideband, 700 to 2000 MHz
- low insertion loss, 0.3 dB typ.
- high isolation, 30 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- cellular
- GPS
- PCS/DCS
- instrumentation

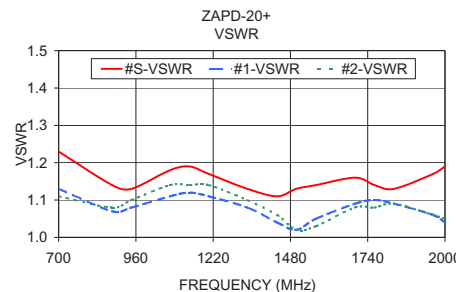
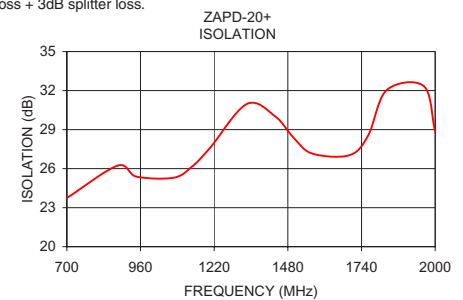
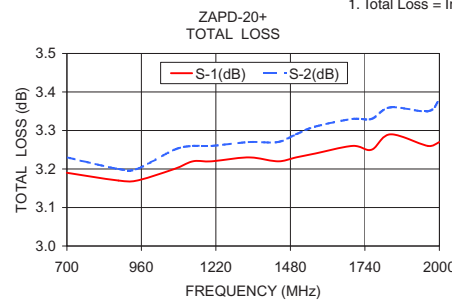
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.	Max.	Max.	S Typ.	OUT Typ. Max.
f _L -f _H								
700-2000	30	20	0.3	0.7	3	0.4	1.15	1.35 1.1 1.3

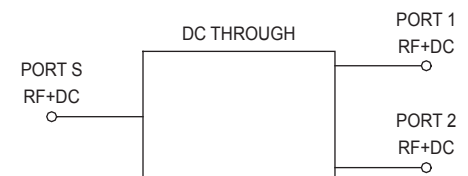
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
700.00	3.19	3.23	0.04	23.74	0.29	1.23	1.13	1.11
880.00	3.17	3.20	0.04	26.24	0.50	1.14	1.07	1.08
945.00	3.17	3.20	0.03	25.39	0.54	1.13	1.08	1.10
1075.00	3.20	3.25	0.05	25.29	0.59	1.18	1.11	1.14
1140.00	3.22	3.26	0.04	26.12	0.61	1.19	1.12	1.14
1205.00	3.22	3.26	0.04	27.59	0.60	1.17	1.11	1.14
1335.00	3.23	3.27	0.04	30.97	0.64	1.13	1.08	1.10
1435.00	3.22	3.27	0.04	30.03	0.53	1.11	1.04	1.06
1500.00	3.23	3.29	0.05	28.39	0.51	1.13	1.02	1.02
1566.00	3.24	3.31	0.06	27.16	0.66	1.14	1.05	1.03
1697.00	3.26	3.33	0.07	27.03	0.71	1.16	1.09	1.08
1763.12	3.25	3.33	0.08	28.54	0.69	1.14	1.10	1.08
1828.75	3.29	3.36	0.07	32.04	0.78	1.13	1.09	1.09
1960.00	3.26	3.35	0.09	32.34	0.94	1.17	1.06	1.06
2000.00	3.27	3.38	0.10	28.83	0.83	1.19	1.04	1.05

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



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-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/MCLStore/terms.jsp

