

Coaxial

Power Splitter/Combiner

ZAPD-30-S+

2 Way-0° 50Ω 20 to 3000 MHz



Generic photo used for illustration purposes only

CASE STYLE: F14

Connectors Model
SMA ZAPD-30-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)	1W max.
Internal Dissipation	0.125W max.

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Features

- wideband, 20 to 3000 MHz
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.

Applications

- UHF TV/DVT
- aircraft radio navigation
- PCS/cellular/GSM

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			VSWR (:1)			
	L		M		U		L		M		U		L	M	U	L	M	U	S		OUT	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
20-3000	14	12	16	12	20	14	1.1	1.5	1.1	1.8	1.4	2.3	3	5	9	0.3	0.4	0.8	1.5	1.95	1.55	2.1

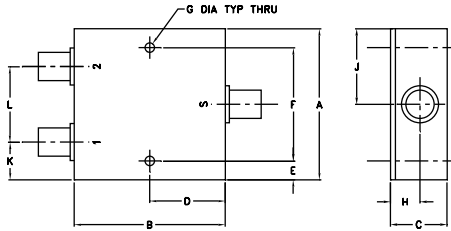
L = 20-200 MHz M = 200-1500 MHz U = 1500-3000 MHz

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						
20.00	4.06	4.08	0.02	15.35	0.01	1.68	1.52	1.52
40.00	4.06	4.08	0.02	14.99	0.03	1.67	1.49	1.49
60.00	4.07	4.09	0.02	14.75	0.04	1.66	1.48	1.48
80.00	4.07	4.09	0.02	14.64	0.05	1.67	1.47	1.47
100.00	4.08	4.10	0.02	14.57	0.04	1.67	1.46	1.46
400.00	4.08	4.10	0.02	14.77	0.22	1.65	1.48	1.47
600.00	4.07	4.09	0.03	15.14	0.30	1.63	1.51	1.49
800.00	4.07	4.10	0.03	15.62	0.34	1.61	1.54	1.52
1000.00	4.07	4.10	0.03	16.24	0.48	1.60	1.57	1.56
1400.00	4.12	4.16	0.04	17.85	0.61	1.54	1.64	1.63
1800.00	4.18	4.25	0.07	19.60	0.66	1.47	1.67	1.70
2000.00	4.21	4.30	0.09	20.27	0.71	1.44	1.65	1.71
2400.00	4.29	4.45	0.17	20.63	0.92	1.38	1.62	1.73
2800.00	4.37	4.62	0.25	19.58	1.43	1.33	1.67	1.84
3000.00	4.47	4.76	0.28	18.76	1.80	1.32	1.73	1.93

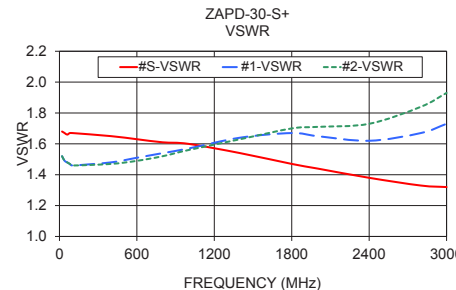
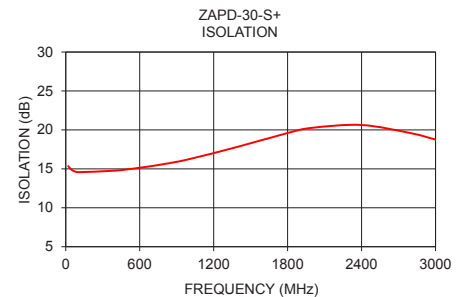
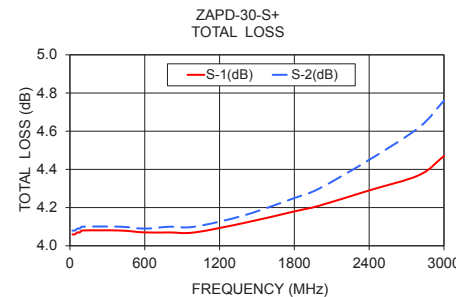
1. Total Loss = Insertion Loss + 3dB splitter loss.

Outline Drawing

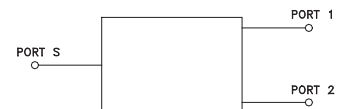


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
2.00	2.00	0.75	1.00	0.25	1.500	0.125	
50.80	50.80	19.05	25.40	6.35	38.10	3.18	
H	J	K	L				wt
0.39	1.00	0.50	1.00				grams
9.91	25.40	12.70	25.40				170.0



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

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