

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 20 to 3000 MHz

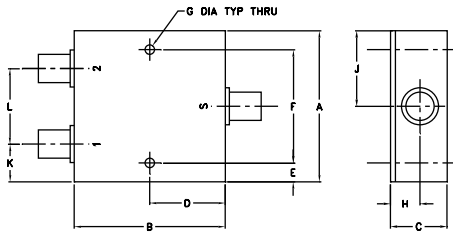
Maximum Ratings

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

Outline Drawing



Outline Dimensions (inch/mm)

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

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



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

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		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

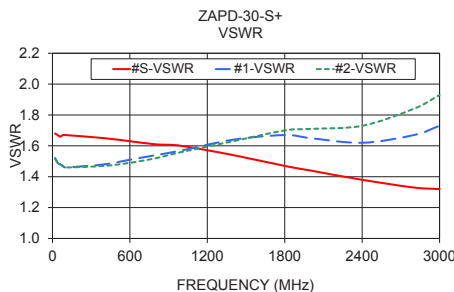
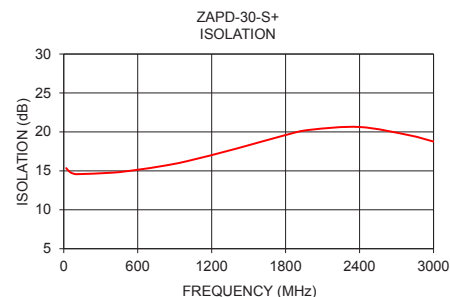
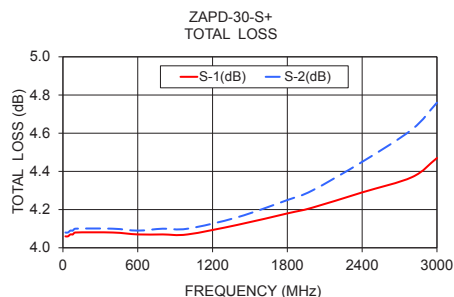
M = 200-1500 MHz

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.



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.
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