

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 5 to 2500 MHz

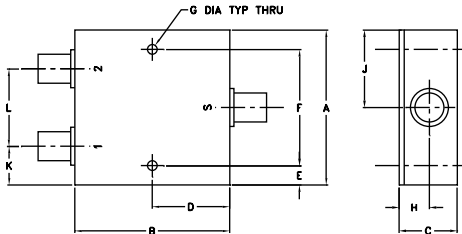
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.04W 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
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

For option B with N-type connectors, dimension "C" increases to 0.94 inches.

Features

- wideband, 5 to 2500 MHz, useable from 0.5 to 3000 MHz
- low insertion loss, 1.0 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- excellent phase unbalance, 2 deg. typ.
- rugged shielded case

Applications

- VHF/UHF
- PCS
- GPS
- cellular
- instrumentation



Generic photo used for illustration purposes only

CASE STYLE: F14

Connectors	Model
N-TYPE	ZAPD-2-252-N+
SMA	ZAPD-2-252-S+

+RoHS Compliant

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

Electrical Specifications

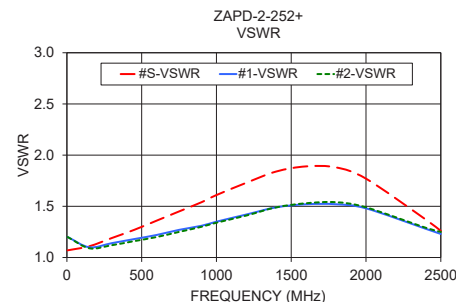
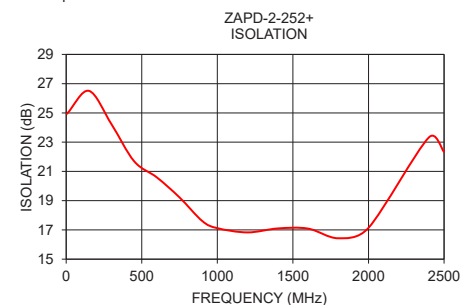
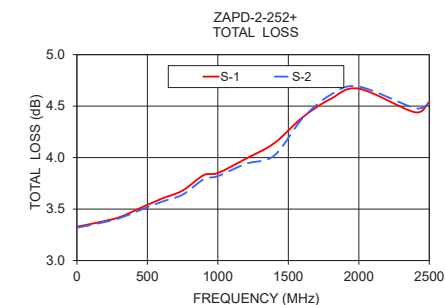
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			VSWR (:1)			
	L		M		U		L		M		U		L		M		U		S		OUT	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
5-2500	25	19	17	14	17	14	0.3	0.6	0.8	1.7	1.5	2.4	2	3	5	0.2	0.4	0.6	1.6	—	1.3	—

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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						
5.00	3.33	3.32	0.01	24.94	0.03	1.07	1.20	1.20
150.00	3.37	3.36	0.02	26.51	0.08	1.11	1.10	1.09
300.00	3.42	3.41	0.01	24.22	0.06	1.19	1.14	1.12
450.00	3.51	3.49	0.02	21.69	0.12	1.27	1.18	1.16
600.00	3.60	3.57	0.03	20.59	0.19	1.36	1.22	1.20
750.00	3.68	3.64	0.04	19.22	0.26	1.45	1.27	1.25
900.00	3.83	3.79	0.04	17.61	0.24	1.54	1.31	1.30
1000.00	3.85	3.82	0.02	17.12	0.41	1.61	1.35	1.34
1200.00	3.99	3.94	0.05	16.83	0.08	1.73	1.42	1.41
1400.00	4.14	4.02	0.13	17.10	1.12	1.84	1.49	1.49
1600.00	4.39	4.38	0.01	17.09	1.56	1.89	1.52	1.53
1800.00	4.57	4.61	0.04	16.43	2.12	1.88	1.52	1.54
2000.00	4.67	4.69	0.02	17.14	2.02	1.77	1.48	1.49
2400.00	4.44	4.48	0.03	23.33	2.38	1.37	1.28	1.29
2500.00	4.54	4.52	0.02	22.33	2.12	1.26	1.23	1.25

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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