

Power Splitter/Combiner

2 Way-0° 50Ω 800 to 2700 MHz

ZAPD-2-272+



CASE STYLE: F53

Connectors	Model
N-TYPE	ZAPD-2-272-N+
SMA	ZAPD-2-272-S+

+RoHS Compliant

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

Maximum Ratings

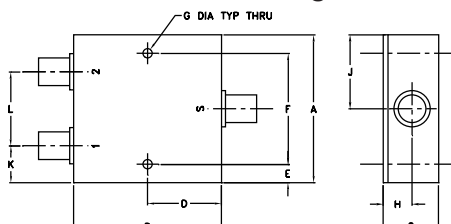
Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C
Power Input (as splitter)	10W max.
Internal Dissipation	0.125W max.
DC Current	80mA (40mA for each port)

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

Electrical Schematic



Features

- wideband, 800-2700 MHz
- low insertion loss, 0.3 dB typ.
- good isolation, 25 dB typ.
- good amplitude unbalance, 0.05 dB typ. and phase unbalance, 0.7 deg. typ.

Applications

- LMDS • UHF
- VSAT • PCS
- GPS • cellular

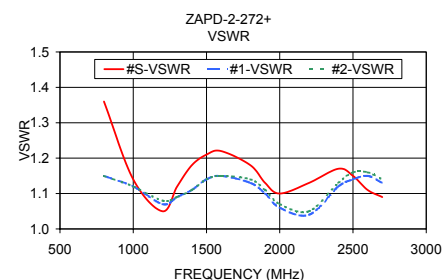
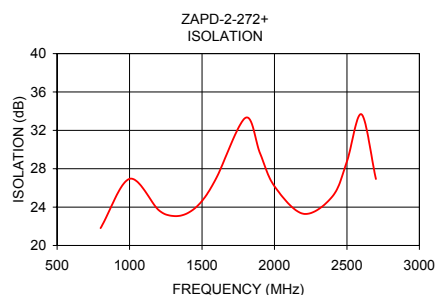
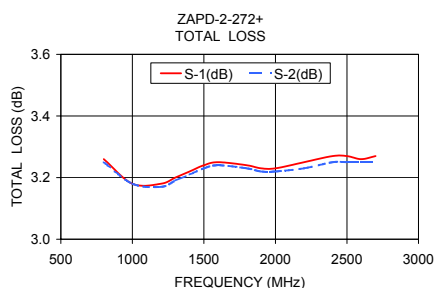
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		800		2700	MHz
Insertion Loss Above 3.0 dB	800-2700	—	0.3	0.5	dB
Isolation	800-2700	18	22	—	dB
Phase Unbalance	800-2700	—	1.1	3.0	Degree
Amplitude Unbalance	800-2700	—	0.05	0.3	dB
VSWR (Port S)	800-2700	—	1.3	1.5	:1
VSWR (Port 1-2)	800-2700	—	1.2	1.3	:1

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amp. Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
800.00	3.26	3.25	0.01	21.81	0.14	1.36	1.15	1.15
1000.00	3.18	3.18	0.01	26.94	0.15	1.14	1.12	1.12
1200.00	3.18	3.17	0.01	23.70	0.16	1.05	1.07	1.08
1300.00	3.20	3.19	0.01	23.08	0.17	1.12	1.09	1.09
1400.00	3.22	3.21	0.01	23.37	0.18	1.18	1.11	1.11
1500.00	3.24	3.23	0.01	24.64	0.20	1.21	1.14	1.14
1600.00	3.25	3.24	0.01	27.07	0.21	1.22	1.15	1.15
1800.00	3.24	3.23	0.01	33.31	0.22	1.18	1.13	1.14
1900.00	3.23	3.22	0.01	29.63	0.23	1.13	1.10	1.11
2000.00	3.23	3.22	0.02	26.18	0.24	1.10	1.06	1.07
2200.00	3.25	3.23	0.01	23.30	0.26	1.13	1.04	1.05
2400.00	3.27	3.25	0.02	25.12	0.28	1.17	1.12	1.13
2500.00	3.27	3.25	0.02	28.78	0.29	1.15	1.14	1.16
2600.00	3.26	3.25	0.01	33.68	0.29	1.11	1.15	1.16
2700.00	3.27	3.25	0.01	26.93	0.30	1.09	1.13	1.14

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



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-Circuits' applicable established test performance criteria and measurement instructions.
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