Coaxial

Power Splitter/Combiner

ZAPD-2-272+

2 Way-0° 50Ω 800 to 2700 MHz

SMA version shown

CASE STYLE: F53

Connectors	Model	Price	Qty.
N-TYPE	ZAPD-2-272-N+	$74.95	(1-9)
SMA	ZAPD-2-272-S+	$74.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify 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.

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

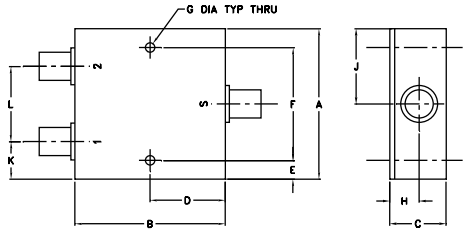
Features

- 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

Outline Drawing

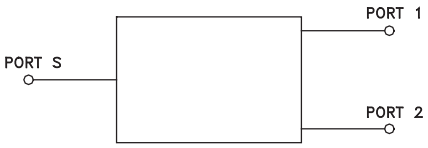


Outline Dimensions (inch / mm)

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



Electrical Specifications at 25°C

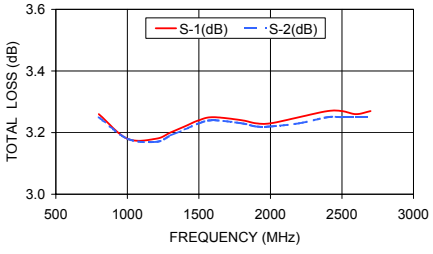
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		800		2700	MHz
Insertion Loss Above 3.0 dB	800-2700	—	0.3	0.5	dB
Isolation	800-2700	18	22	—	dB
Phase Unbalance	800-2700	—	1.1	3.0	Degree
Amplitude Unbalance	800-2700	—	0.05	0.3	dB
VSWR (Port S)	800-2700	—	1.3	1.5	:1
VSWR (Port 1-2)	800-2700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

ZAPD-2-272+
TOTAL LOSS



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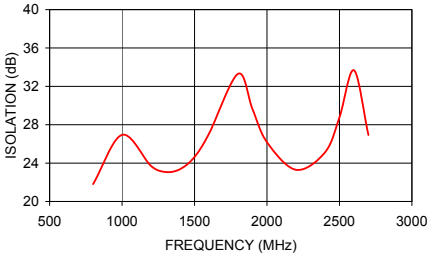
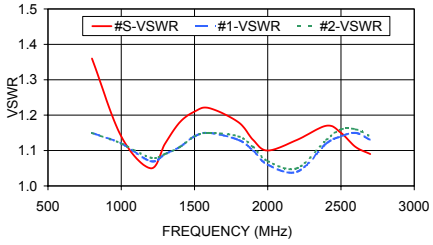
ISOLATION



ZAPD-2-272+
VSWR



REV. OR
M128829
ED-13190/2
ZAPD-2-272+
AD/TD/CP/AM
120125