Coaxial

Power Splitter/Combiner

ZC24PD-222+

24 Way-0° 50Ω 650 to 2200 MHz

HT-Series Tight Spot SMA Wrench From $24.95

CASE STYLE: UU1741

Connectors	Model
SMA	ZC24PD-222-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)	10W max.
Internal Dissipation	3.6W max.

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

Coaxial Connections

SUM PORT	S
PORT 1,2,3....24	1,2,3...24

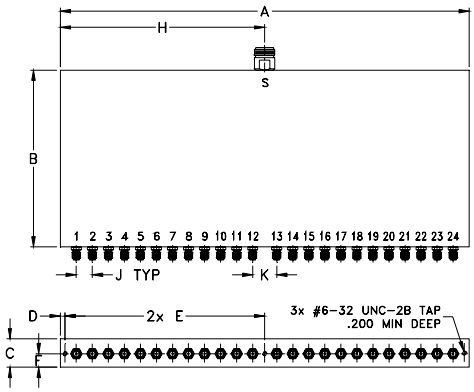
Features

- wideband, 650 to 2200 MHz
- low insertion loss, 1.8 dB typ.
- good isolation, 25 dB typ.
- good amplitude unbalance, 0.5 dB typ.
- up to 10W power input as splitter

Applications

- UHF
- cellular
- GPS
- communication systems
- satellite L band

Outline Drawing

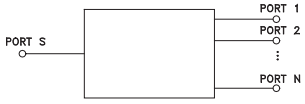


Outline Dimensions (inch / mm)

A	B	C	D	E	F
12.75	5.50	0.88	0.150	6.22	0.42
323.9	139.7	22.4	3.81	158.1	10.7

G	H	J	K	wt
--	6.38	0.50	0.75	grams
--	162.1	12.7	19.1	1750

Electrical Schematic



Electrical Specifications at 25°C

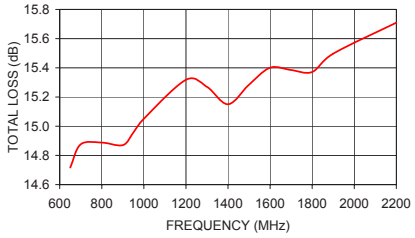
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		650		2200	MHz
Insertion Loss (above theoretical 13.8 dB)	650 - 2200	—	1.8	2.8	dB
Isolation	650 - 2200	16	25	—	dB
Phase Unbalance	650 - 2200	—	10	18	Degree
Amplitude Unbalance	650 - 2200	—	0.5	0.9	dB
VSWR (Port S)	650 - 2200	—	1.3	1.85	:1
VSWR (Port 1-24)	650 - 2200	—	1.25	1.6	:1

Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB) S-1	Amplitude Unbalance (dB)	Isolation (dB) Adjacent	Isolation (dB) Opposite	Phase Unbalance (deg.)	VSWR S	VSWR 1
650.00	14.72	0.31	22.64	32.52	1.87	1.27	1.11
700.00	14.88	0.29	28.64	31.96	2.11	1.46	1.14
800.00	14.89	0.24	32.08	31.85	2.42	1.44	1.26
900.00	14.87	0.25	24.45	28.49	2.56	1.27	1.26
950.00	14.96	0.28	21.27	26.08	2.77	1.41	1.19
1000.00	15.05	0.30	19.41	24.37	2.97	1.53	1.11
1200.00	15.32	0.39	22.11	25.83	3.49	1.51	1.18
1300.00	15.27	0.29	23.73	27.71	3.95	1.51	1.15
1400.00	15.15	0.32	23.66	32.22	4.20	1.15	1.14
1500.00	15.28	0.34	25.92	39.18	4.64	1.20	1.19
1600.00	15.40	0.31	30.70	41.38	4.95	1.41	1.18
1700.00	15.39	0.26	30.38	34.25	5.43	1.25	1.21
1800.00	15.37	0.34	26.30	31.13	6.38	1.22	1.19
1900.00	15.50	0.30	25.29	32.27	5.91	1.26	1.21
2200.00	15.71	0.39	25.10	31.94	6.67	1.32	1.17

1. Total Loss = Insertion Loss + 13.8 dB splitter theoretical loss.

ZC24PD-222+
TOTAL LOSS



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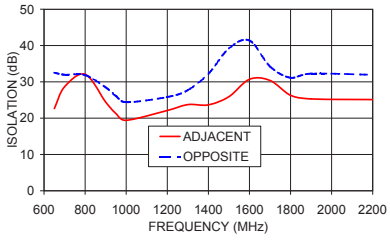
ISOLATION



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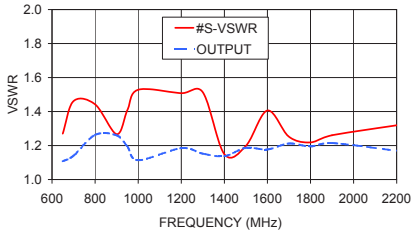
VSWR



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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