

Coaxial

Power Splitter/Combiner

ZC24PD-222-S+

24 Way-0° 50Ω 650 to 2200 MHz

Maximum Ratings

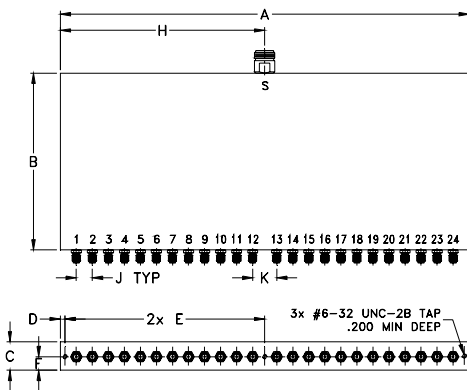
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	3.6W max.

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

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



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



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

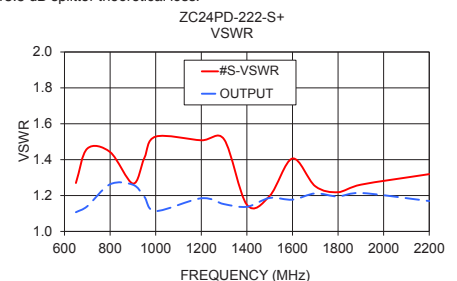
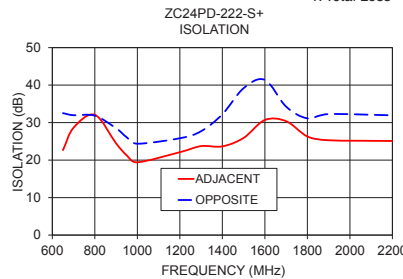
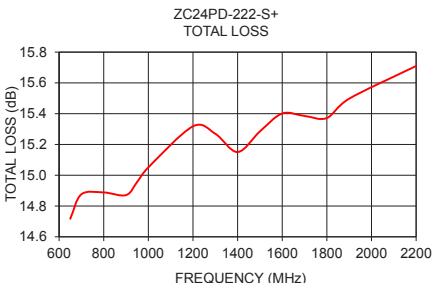
Electrical Specifications at 25°C

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)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			Adjacent	Opposite			
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.



Notes

- 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.
- 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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