

Coaxial

# Power Splitter/Combiner

## ZC24PD-222+

24 Way-0° 50Ω 650 to 2200 MHz

### Maximum Ratings

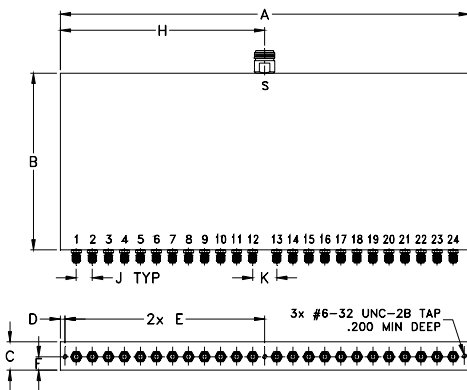
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	3.6W max.

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



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

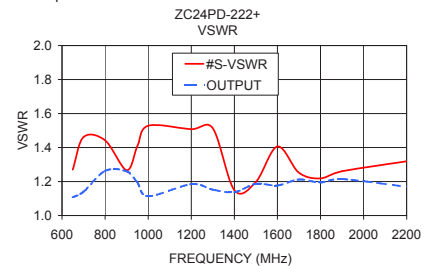
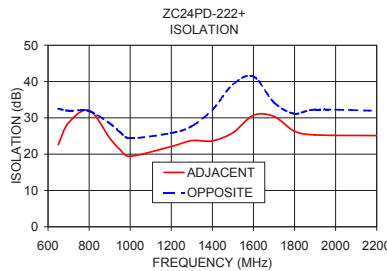
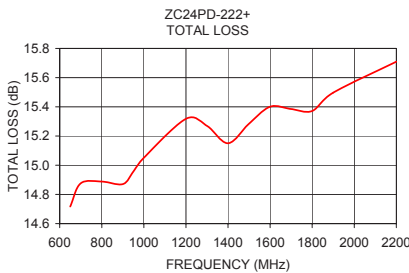
### Electrical Specifications at 25°C

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

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (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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