

Coaxial Power Splitter/Combiner

ZN2PD1-222+

2 Way-0° 50Ω 600 to 2200 MHz



CASE STYLE: AB762

| Connectors | Model | Price | Qty. |
|------------|---------------|-------------|-------|
| SMA | ZN2PD1-222-S+ | \$69.95 ea. | (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.

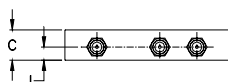
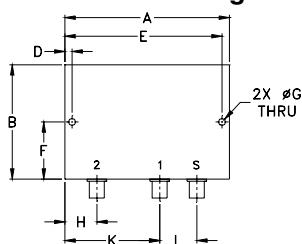
Maximum Ratings

| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 10W max. |
| Internal Dissipation | 0.25W max. |

Coaxial Connections

| | |
|----------|---|
| SUM PORT | S |
| PORT 1 | 1 |
| PORT 2 | 2 |

Outline Drawing



Outline Dimensions (inch/mm)

| A | B | C | D | E | F |
|-------|-------|-------|-------|-------|-------|
| 2.88 | 2.00 | .53 | .125 | 2.750 | 1.000 |
| 73.15 | 50.80 | 13.46 | 3.18 | 69.85 | 25.40 |
| G | H | J | K | L | wt |
| .125 | .56 | .24 | 1.66 | .65 | grams |
| 3.18 | 14.22 | 6.10 | 42.16 | 16.51 | 100 |

Features

- low insertion loss, 0.3 dB typ.
- good isolation, 22 dB typ.
- very good input VSWR, 1.2:1 typ.
- excellent output VSWR, 1.15:1 typ.

Applications

- cellular
- GPS
- PCS
- GSM
- WCDMA
- DCS
- PDC

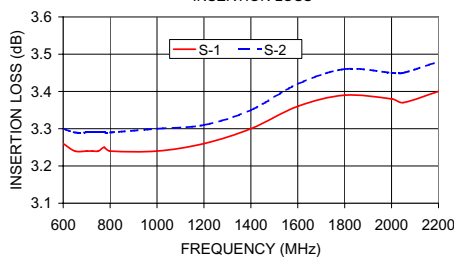
Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) ABOVE 3.0 dB | | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) | VSWR (:1) | | | |
|-------------------|----------------|------|----------------------------------|------|---------------------------|--------------------------|-----------|------|------|------|
| | Typ. | Min. | Typ. | Max. | | | S | | OUT | |
| $f_c - f_u$ | | | | | Max. | Max. | Typ. | Max. | Typ. | Max. |
| 600-725 | 18 | 14 | 0.2 | 0.5 | 2 | 0.2 | 1.25 | 1.6 | 1.15 | 1.3 |
| 725-2050 | 22 | 16 | 0.3 | 0.7 | 3 | 0.3 | 1.2 | 1.6 | 1.15 | 1.3 |
| 2050-2200 | 20 | 15 | 0.3 | 0.8 | 3 | 0.4 | 1.2 | 1.6 | 1.1 | 1.3 |

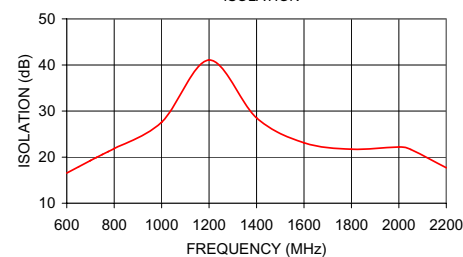
Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Amplitude Unbalance (dB) | Isolation (dB) | Phase Unbalance (deg.) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|---------------------|------|--------------------------|----------------|------------------------|--------|--------|--------|
| | S-1 | S-2 | | | | | | |
| 600.00 | 3.26 | 3.30 | 0.04 | 16.55 | 0.01 | 1.35 | 1.19 | 1.19 |
| 650.00 | 3.24 | 3.29 | 0.05 | 17.91 | 0.04 | 1.31 | 1.17 | 1.17 |
| 700.00 | 3.24 | 3.29 | 0.04 | 19.26 | 0.03 | 1.28 | 1.15 | 1.16 |
| 725.00 | 3.24 | 3.29 | 0.05 | 19.92 | 0.02 | 1.27 | 1.15 | 1.15 |
| 750.00 | 3.24 | 3.29 | 0.05 | 20.57 | 0.01 | 1.26 | 1.14 | 1.14 |
| 775.00 | 3.25 | 3.29 | 0.04 | 21.21 | 0.05 | 1.25 | 1.13 | 1.14 |
| 800.00 | 3.24 | 3.29 | 0.05 | 21.86 | 0.03 | 1.24 | 1.12 | 1.13 |
| 1000.00 | 3.24 | 3.30 | 0.06 | 27.59 | 0.02 | 1.16 | 1.06 | 1.08 |
| 1200.00 | 3.26 | 3.31 | 0.05 | 41.07 | 0.05 | 1.11 | 1.10 | 1.09 |
| 1400.00 | 3.30 | 3.35 | 0.05 | 28.51 | 0.07 | 1.19 | 1.16 | 1.12 |
| 1600.00 | 3.36 | 3.42 | 0.06 | 23.11 | 0.08 | 1.31 | 1.17 | 1.14 |
| 1800.00 | 3.39 | 3.46 | 0.07 | 21.72 | 0.17 | 1.34 | 1.12 | 1.12 |
| 2000.00 | 3.38 | 3.45 | 0.08 | 22.20 | 0.21 | 1.23 | 1.09 | 1.10 |
| 2050.00 | 3.37 | 3.45 | 0.08 | 21.66 | 0.21 | 1.20 | 1.09 | 1.10 |
| 2200.00 | 3.40 | 3.48 | 0.09 | 17.69 | 0.22 | 1.24 | 1.13 | 1.14 |

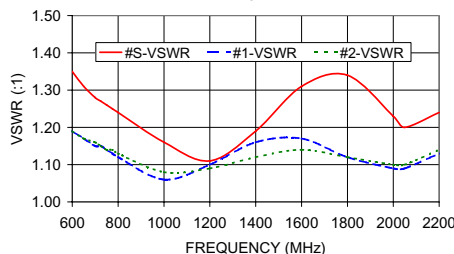
ZN2PD1-222+ INSERTION LOSS



ZN2PD1-222+ ISOLATION



ZN2PD1-222+ VSWR



electrical schematic



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