

Coaxial Power Splitter/Combiner

ZAPD-50+ ZAPD-50

2 Way-0° 50Ω 4400 to 5000 MHz



CASE STYLE: F14

| Connectors | Model | Price | Qty. |
|------------|--------------|---------|-------|
| N-TYPE | ZAPD-50-N(+) | \$64.95 | (1-9) |

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

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 | 0.125W max. |

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

Coaxial Connections

| | |
|----------|---|
| SUM PORT | S |
| PORT 1 | 1 |
| PORT 2 | 3 |

Features

- low insertion loss, 0.3 dB typ.
- good isolation, 26 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent VSWR, 1.15:1 typ.
- rugged shield case

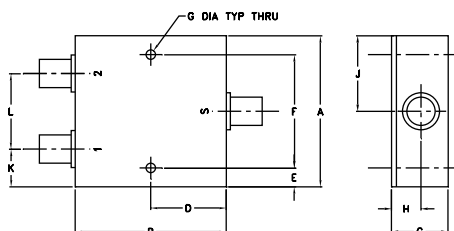
Applications

- wireless
- defense & federal communications

Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) ABOVE 3.0 dB | | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) |
|-------------------|----------------|------|----------------------------------|------|---------------------------|--------------------------|
| | Typ. | Min. | Typ. | Max. | | |
| f_c - f_u | | | | | Max. | Max. |
| 4400-5000 | 26 | 20 | 0.3 | 0.8 | 5 | 0.5 |

Outline Drawing

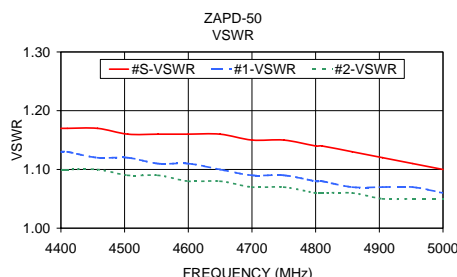
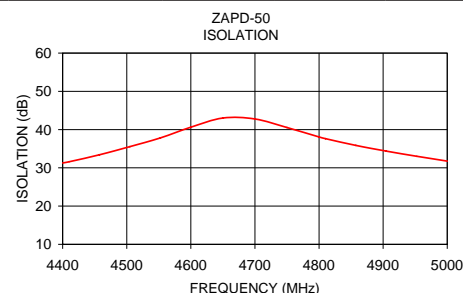
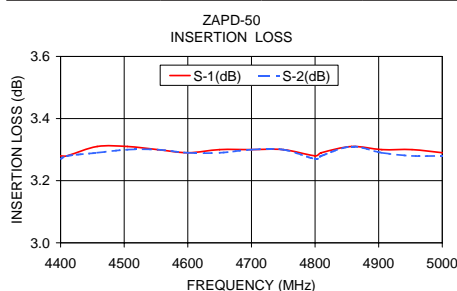


Outline Dimensions (inch/mm)

| | | | | | | | |
|-------|-------|-------|-------|------|-------|-------|-------|
| A | B | C | D | E | F | G | |
| 2.00 | 2.00 | 0.75 | 1.00 | 0.25 | 1.500 | 0.125 | |
| 50.80 | 50.80 | 19.05 | 25.40 | 6.35 | 38.10 | 3.18 | |
| H | J | K | L | | | | wt |
| 0.39 | 1.00 | 0.50 | 1.00 | | | | grams |
| 9.91 | 25.40 | 12.70 | 25.40 | | | | 170.0 |

Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Amplitude Unbalance (dB) | Isolation (dB) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|---------------------|------|--------------------------|----------------|--------|--------|--------|
| | S-1 | S-2 | | | | | |
| 4400.00 | 3.28 | 3.27 | 0.01 | 31.27 | 1.17 | 1.13 | 1.10 |
| 4410.00 | 3.28 | 3.28 | 0.00 | 31.59 | 1.17 | 1.13 | 1.10 |
| 4457.50 | 3.31 | 3.29 | 0.01 | 33.42 | 1.17 | 1.12 | 1.10 |
| 4505.00 | 3.31 | 3.30 | 0.01 | 35.55 | 1.16 | 1.12 | 1.09 |
| 4552.50 | 3.30 | 3.30 | 0.00 | 37.82 | 1.16 | 1.11 | 1.09 |
| 4600.00 | 3.29 | 3.29 | 0.00 | 40.63 | 1.16 | 1.11 | 1.08 |
| 4650.00 | 3.30 | 3.29 | 0.00 | 43.02 | 1.16 | 1.10 | 1.08 |
| 4700.00 | 3.30 | 3.30 | 0.00 | 42.77 | 1.15 | 1.09 | 1.07 |
| 4750.00 | 3.30 | 3.30 | 0.00 | 40.53 | 1.15 | 1.09 | 1.07 |
| 4800.00 | 3.28 | 3.27 | 0.01 | 38.07 | 1.14 | 1.08 | 1.06 |
| 4810.00 | 3.29 | 3.28 | 0.01 | 37.64 | 1.14 | 1.08 | 1.06 |
| 4857.50 | 3.31 | 3.31 | 0.01 | 35.87 | 1.13 | 1.07 | 1.06 |
| 4905.00 | 3.30 | 3.29 | 0.01 | 34.37 | 1.12 | 1.07 | 1.05 |
| 4952.50 | 3.30 | 3.28 | 0.02 | 33.03 | 1.11 | 1.07 | 1.05 |
| 5000.00 | 3.29 | 3.28 | 0.01 | 31.75 | 1.10 | 1.06 | 1.05 |



electrical schematic



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