

Coaxial

Power Splitter/Combiner

ZX10-2-25+

2 Way-0° 50Ω 1000 to 2500 MHz



CASE STYLE: FL905

Maximum Ratings

| | |
|--------------------------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 1.0W max. |
| Internal Dissipation (as a combiner) | 0.125W max. |

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

Coaxial Connections

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

Features

- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- protected under U.S. Patent 6,790,049 & 6,963,255

Applications

- PCN/PCS
- VSAT
- ISM
- GPS
- defense
- communications

| Connectors | Model | Price | Qty. |
|------------|--------------|---------|--------|
| SMA | ZX10-2-25-S+ | \$26.95 | (1-24) |

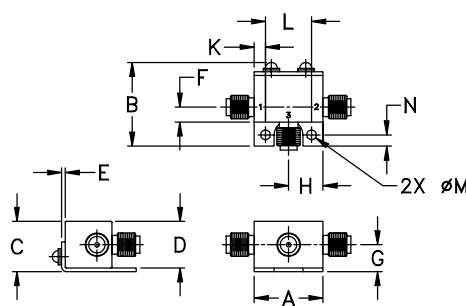
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications (T_{AMB} = 25°C)

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) ABOVE 3.0 dB | | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) |
|--------------------------------|----------------|------|----------------------------------|------|---------------------------|--------------------------|
| | Typ. | Min. | Typ. | Max. | Max. | Max. |
| f _c -f _u | | | | | | |
| 1000-2500 | 20 | 14 | 1.2 | 2.2 | 10.0 | 1.2 |
| 1400-1800 | 18 | 16 | 0.9 | 1.4 | 6.0 | 0.6 |
| 1800-2000 | 19 | 16 | 0.9 | 1.4 | 6.0 | 0.6 |

Outline Drawing



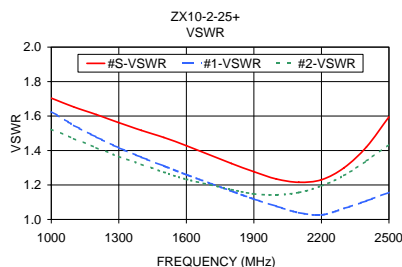
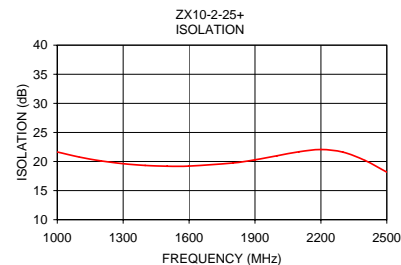
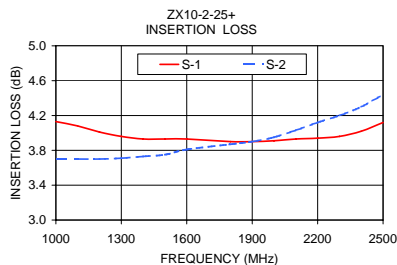
Outline Dimensions (inch/mm)

| A | B | C | D | E | F | G |
|-------|-------|-------|-------|------|------|------|
| .74 | .90 | .54 | .50 | .04 | .16 | .29 |
| 18.80 | 22.86 | 13.72 | 12.70 | 1.02 | 4.06 | 7.37 |

| H | J | K | L | M | N | wt |
|------|----|------|-------|------|------|-------|
| .37 | -- | .122 | .496 | .106 | .122 | grams |
| 9.40 | -- | 3.10 | 12.60 | 2.69 | 3.10 | 20.0 |

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 | | | | | | |
| 1000.00 | 4.13 | 3.70 | 0.43 | 21.64 | 2.82 | 1.70 | 1.63 | 1.52 |
| 1100.00 | 4.08 | 3.70 | 0.38 | 20.77 | 2.58 | 1.65 | 1.55 | 1.47 |
| 1200.00 | 4.01 | 3.70 | 0.31 | 20.10 | 2.27 | 1.61 | 1.48 | 1.42 |
| 1300.00 | 3.96 | 3.71 | 0.25 | 19.63 | 2.23 | 1.56 | 1.42 | 1.37 |
| 1400.00 | 3.93 | 3.73 | 0.21 | 19.33 | 2.05 | 1.52 | 1.36 | 1.32 |
| 1500.00 | 3.93 | 3.75 | 0.18 | 19.19 | 2.07 | 1.48 | 1.31 | 1.27 |
| 1600.00 | 3.93 | 3.81 | 0.12 | 19.22 | 2.10 | 1.43 | 1.26 | 1.23 |
| 1800.00 | 3.90 | 3.87 | 0.30 | 19.75 | 2.27 | 1.33 | 1.16 | 1.17 |
| 1900.00 | 3.90 | 3.90 | 0.01 | 20.29 | 2.59 | 1.28 | 1.12 | 1.15 |
| 2000.00 | 3.91 | 3.95 | 0.05 | 20.99 | 3.08 | 1.23 | 1.08 | 1.14 |
| 2100.00 | 3.93 | 4.03 | 0.10 | 21.68 | 3.65 | 1.22 | 1.04 | 1.16 |
| 2200.00 | 3.94 | 4.12 | 0.18 | 22.06 | 4.43 | 1.23 | 1.03 | 1.19 |
| 2300.00 | 3.96 | 4.20 | 0.24 | 21.62 | 5.16 | 1.30 | 1.06 | 1.26 |
| 2400.00 | 4.02 | 4.30 | 0.29 | 20.20 | 5.94 | 1.42 | 1.11 | 1.34 |
| 2500.00 | 4.12 | 4.44 | 0.32 | 18.17 | 7.12 | 1.60 | 1.16 | 1.43 |



electrical schematic



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