

Coaxial Power Splitter/Combiner

ZX10-2-71+ ZX10-2-71

2 Way-0° 50Ω 2950 to 7100 MHz



CASE STYLE: FL905

| Connectors | Model | Price | Qty. |
|------------|----------------|---------|--------|
| SMA | ZX10-2-71-S(+) | \$34.95 | (1-24) |

+ 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 | -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. |

Coaxial Connections

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

Features

- low insertion loss, 0.25 dB typ.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- protected under U.S. Patent 6,790,049 & 6,963,255

Applications

- SHF
- communications
- defense
- cable tv relay

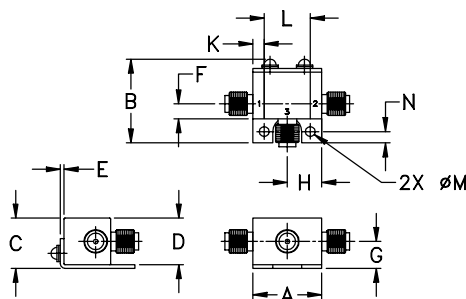
Splitter Electrical Specifications (T_{AMB}=25°C)

| 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 _L -f _H | | | | | | |
| 2950-7100 | 23 | 10 | 0.25 | 0.9 | 3.0 | 0.4 |
| 4500-5700 | 23 | 18 | 0.2 | 0.4 | 3.0 | 0.3 |

Typical Performance Data

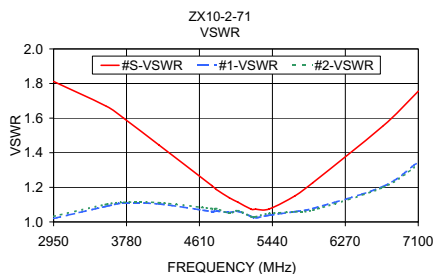
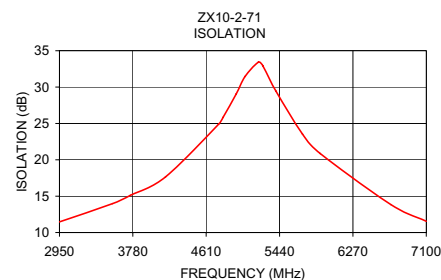
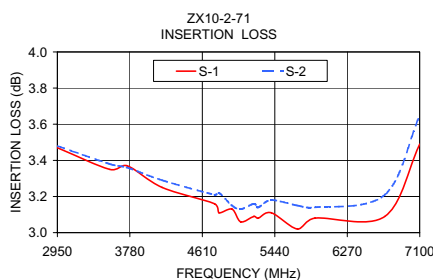
| Frequency (MHz) | Insertion Loss (dB) | | Amplitude Unbalance (dB) | Isolation (dB) | Phase Unbalance (deg.) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|---------------------|------|--------------------------|----------------|------------------------|--------|--------|--------|
| | S-1 | S-2 | | | | | | |
| 2950.00 | 3.47 | 3.48 | 0.01 | 11.46 | 0.55 | 1.81 | 1.02 | 1.03 |
| 3550.00 | 3.35 | 3.38 | 0.03 | 13.97 | 0.48 | 1.67 | 1.09 | 1.10 |
| 3750.00 | 3.37 | 3.36 | 0.01 | 15.10 | 0.44 | 1.60 | 1.11 | 1.11 |
| 4150.00 | 3.25 | 3.29 | 0.04 | 17.65 | 0.45 | 1.44 | 1.10 | 1.11 |
| 4750.00 | 3.16 | 3.21 | 0.04 | 24.89 | 0.67 | 1.21 | 1.06 | 1.08 |
| 4800.00 | 3.11 | 3.22 | 0.10 | 25.83 | 0.43 | 1.19 | 1.06 | 1.08 |
| 4950.00 | 3.13 | 3.15 | 0.02 | 29.08 | 0.53 | 1.14 | 1.05 | 1.05 |
| 5050.00 | 3.06 | 3.13 | 0.07 | 31.47 | 0.54 | 1.11 | 1.06 | 1.07 |
| 5200.00 | 3.09 | 3.16 | 0.08 | 33.43 | 0.44 | 1.07 | 1.03 | 1.03 |
| 5250.00 | 3.08 | 3.14 | 0.06 | 32.96 | 0.41 | 1.07 | 1.02 | 1.03 |
| 5400.00 | 3.11 | 3.18 | 0.08 | 29.44 | 0.66 | 1.07 | 1.04 | 1.05 |
| 5700.00 | 3.02 | 3.15 | 0.13 | 23.53 | 0.70 | 1.15 | 1.06 | 1.06 |
| 5900.00 | 3.08 | 3.14 | 0.07 | 20.87 | 0.76 | 1.23 | 1.08 | 1.07 |
| 6700.00 | 3.09 | 3.21 | 0.12 | 13.84 | 0.64 | 1.56 | 1.21 | 1.20 |
| 7100.00 | 3.49 | 3.65 | 0.16 | 11.55 | 0.30 | 1.76 | 1.35 | 1.33 |

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 |



electrical schematic

