

Power Splitters/Combiners

ZX10-SERIES

2 Way-0°, 50Ω 2 to 12600 MHz

Features

- low insertion loss, 0.25 dB typ.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- patent pending

Applications

- communications
- defense
- cable tv relay
- radio
- cellular/GSM
- UHF/VHF receivers/transmitters

- PCN/PCS
- VSAT
- DECT
- PHS



CASE STYLE: FL905

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

| MODEL NO. | FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) above 3.0 dB | | PHASE UNBALANCE (Deg.) | AMPLITUDE UNBALANCE (dB) | CASE STYLE | CONNECT ION | PRICE \$ |
|------------|-------------------|----------------|------|----------------------------------|------|------------------------|--------------------------|------------|-------------|----------|
| | | Typ. | Min. | Typ. | Max. | | | | | |
| ZX10-2-12 | 2-1200 | 21 | 16 | 0.5 | 1.5 | 3.0 | 0.5 | FL905 | ar | 24.95 |
| | 2-20 | 29 | 21 | 0.3 | 0.7 | 3.0 | 0.5 | | | |
| | 20-600 | 25 | 18 | 0.3 | 0.8 | 2.0 | 0.4 | | | |
| | 600-1000 | 21 | 18 | 0.5 | 1.0 | 2.0 | 0.5 | | | |
| ZX10-2-20 | 200-2000 | 20 | 16 | 0.8 | 2.2 | 6.0 | 0.4 | FL905 | ar | 24.95 |
| | 800-1000 | 22 | 17 | 0.5 | 0.9 | 2.0 | 0.3 | | | |
| | 500-1500 | 22 | 17 | 0.5 | 1.3 | 3.0 | 0.4 | | | |
| | 1800-2000 | 20 | 17 | 1.6 | 2.2 | 6.0 | 0.4 | | | |
| ZX10-2-25 | 1000-2500 | 20 | 14 | 1.2 | 2.2 | 10.0 | 1.2 | FL905 | ar | 26.95 |
| | 1400-1800 | 18 | 16 | 0.9 | 1.4 | 6.0 | 0.6 | | | |
| | 1800-2000 | 19 | 16 | 0.9 | 1.4 | 6.0 | 0.6 | | | |
| ZX10-2-42 | 1900-4200 | 23 | 10 | 0.2 | 1.0 | 3.0 | 0.3 | FL905 | ar | 34.95 |
| | 2600-3400 | 23 | 17 | 0.2 | 0.5 | 2.0 | 0.3 | | | |
| ZX10-2-71 | 2950-7100 | 23 | 10 | 0.25 | 0.9 | 3.0 | 0.4 | FL905 | ar | 34.95 |
| | 4500-5700 | 23 | 18 | 0.2 | 0.4 | 3.0 | 0.3 | | | |
| ZX10-2-98 | 4750-9800 | 23 | 10 | 0.3 | 1.2 | 9.0 | 0.5 | FL905 | ar | 39.95 |
| | 7000-9000 | 23 | 18 | 0.3 | 0.8 | 8.0 | 0.4 | | | |
| ZX10-2-126 | 7400-12600 | 23 | 10 | 0.3 | 1.3 | 10.0 | 0.5 | FL905 | ar | 39.95 |
| | 9000-11000 | 23 | 16 | 0.3 | 0.6 | 5.0 | 0.3 | | | |

Maximum Ratings

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

*0.5W max. for ZX10-2-12, ZX10-2-20
 **0.1W max. for ZX10-2-42 and ZX10-2-126

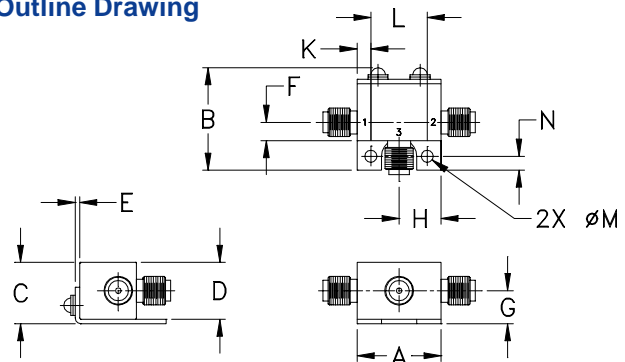
Port Connections

| | |
|----------|------|
| PORT | (ar) |
| SUM PORT | 3 |
| PORT 1 | 1 |
| PORT 2 | 2 |

designers kit available

| KIT No. | No. of Units in KIT | Description | Price \$ per KIT |
|---------|---------------------|--|------------------|
| K1-ZX10 | 7 | 1 of each model in free deluxe wood storage case | 199.95 |

Outline Drawing



Outline Dimensions (inch/mm)

| A | B | C | D | E | F | G | H | J |
|-------|-------|-------|-------|-------|------|------|------|---|
| .74 | .90 | .54 | .50 | .04 | .16 | .29 | .37 | — |
| 18.80 | 22.86 | 13.72 | 12.70 | 1.02 | 4.06 | 7.37 | 9.40 | — |
| K | L | M | N | wt. | | | | |
| .122 | .496 | .106 | .122 | grams | | | | |
| 3.10 | 12.60 | 2.69 | 3.10 | 20.0 | | | | |

REV. D
 M92138
 ZX10-2-12 ED-10145/1
 ZX10-2-20 ED-10145/2
 ZX10-2-25 ED-10145/3
 ZX10-2-42 ED-10281/2
 ZX10-2-71 ED-10146/1
 ZX10-2-98 ED-10280/1
 ZX10-2-126 ED-10227/1
 ZX10-SERIES
 HVRS/CP
 040429