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*Coaxial*

# Power Splitter/Combiner

## ZFSC-2-11+

2 Way-0° 50Ω 10 to 2000 MHz



*Generic photo used for illustration purposes only*

CASE STYLE: K18

| Connectors | Model |
|---|---|
| **BNC** | ZFSC-2-11+ |
| **SMA** | ZFSC-2-11-S+ |
| **N-TYPE** | ZFSC-2-11-N+ |
| **BRACKET (OPTION "B")** | |

***+RoHS Compliant***

*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) | 1W max. |
| Internal Dissipation | 0.125W max. |

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

### Coaxial Connections

| | |
|---|---|
| SUMPORT | 3 |
| PORT 1 | 1 |
| PORT 2 | 2 |

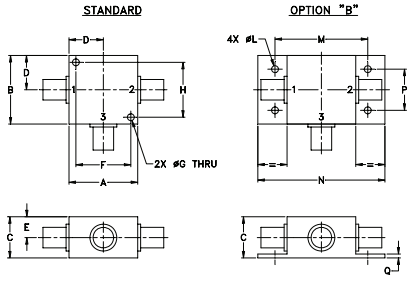
### Features

- very wideband, 10 to 2000 MHz
- low insertion loss, 0.6 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shielded case

### Applications

- cellular
- GPS
- satellite distribution

### Outline Drawing




### Outline Dimensions (inch / mm)

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|
| 1.25 | 1.25 | .75 | .63 | .38 | 1.00 | .125 | 1.000 |
| 31.75 | 31.75 | 19.05 | 16.00 | 9.65 | 25.40 | 3.18 | 25.40 |

| J | K | L | M | N | P | Q | wt |
|---|---|---|---|---|---|---|---|
| -- | -- | .125 | 1.688 | 2.18 | .75 | .07 | grams |
| -- | -- | 3.18 | 42.88 | 55.37 | 19.05 | 1.78 | 70.0 |

For option B with N-type connectors, dimension "C" increases to 0.94 inches.

### Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | | | | | INSERTION LOSS (dB) ABOVE 3.0 dB | | | | | | PHASE UNBALANCE (Degrees) | | | AMPLITUDE UNBALANCE (dB) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | L | | M | | U | | L | | M | | U | | L | M | U | L | M | U |
| $f_L$-$f_U$ | Typ. | Min | Typ. | Min | Typ. | Min | Typ. | Max. | Typ. | Max. | Typ. | Max. | Max. | Max. | Max. | Max. | Max. | Max. |
| 10-2000 | 14 | 10 | 16 | 14 | 20 | 15 | 0.6 | 1.5 | 0.5 | 1.5 | 0.6 | 2.0 | 1 | 2 | 4 | 0.20 | 0.30 | 0.50 |

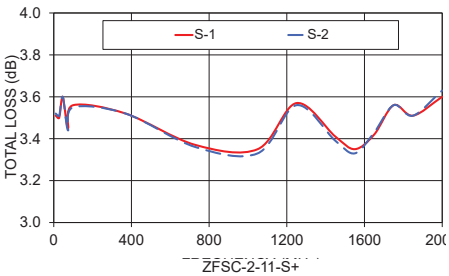
L = low range [$f_L$ to 10 $f_L$] M = mid range [10 $f_L$ to $f_U$/2] U= upper range [$f_U$/2 to $f_U$]

### Typical Performance Data

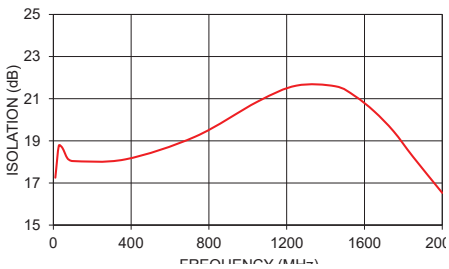
| Frequency (MHz) | Total Loss[1] (dB) | | Amplitude Unbalance (dB) | Isolation (dB) | Phase Unbalance (deg.) | VSWR S | VSWR 1 | VSWR 2 |
|---|---|---|---|---|---|---|---|---|
| | S-1 | S-2 | | | | | | |
| 10.00 | 3.51 | 3.52 | 0.00 | 17.25 | 0.02 | 2.02 | 1.55 | 1.55 |
| 28.00 | 3.50 | 3.51 | 0.00 | 18.77 | 0.02 | 2.02 | 1.55 | 1.55 |
| 46.00 | 3.60 | 3.60 | 0.00 | 18.67 | 0.01 | 2.02 | 1.54 | 1.54 |
| 73.00 | 3.45 | 3.44 | 0.00 | 18.16 | 0.01 | 2.02 | 1.52 | 1.52 |
| 100.00 | 3.56 | 3.55 | 0.00 | 18.04 | 0.02 | 2.02 | 1.51 | 1.51 |
| 370.00 | 3.52 | 3.52 | 0.00 | 18.12 | 0.00 | 1.97 | 1.50 | 1.50 |
| 730.00 | 3.37 | 3.36 | 0.01 | 19.20 | 0.10 | 1.82 | 1.55 | 1.55 |
| 1050.00 | 3.35 | 3.33 | 0.02 | 20.86 | 0.14 | 1.65 | 1.60 | 1.61 |
| 1250.00 | 3.57 | 3.56 | 0.01 | 21.62 | 0.17 | 1.53 | 1.63 | 1.64 |
| 1450.00 | 3.41 | 3.39 | 0.01 | 21.59 | 0.20 | 1.43 | 1.63 | 1.65 |
| 1550.00 | 3.35 | 3.33 | 0.01 | 21.13 | 0.10 | 1.39 | 1.62 | 1.65 |
| 1650.00 | 3.42 | 3.43 | 0.00 | 20.40 | 0.12 | 1.34 | 1.60 | 1.63 |
| 1750.00 | 3.56 | 3.56 | 0.01 | 19.45 | 0.06 | 1.28 | 1.57 | 1.61 |
| 1850.00 | 3.51 | 3.51 | 0.00 | 18.24 | 0.03 | 1.23 | 1.54 | 1.58 |
| 2000.00 | 3.60 | 3.63 | 0.02 | 16.53 | 0.19 | 1.14 | 1.47 | 1.53 |

1. Total Loss = Insertion Loss + 3dB splitter loss.

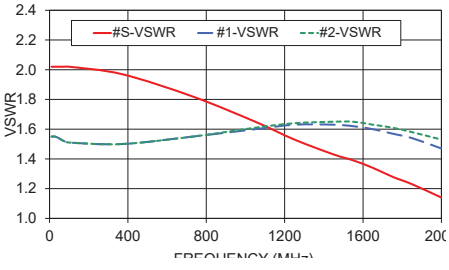
ZFSC-2-11-S+
TOTAL LOSS



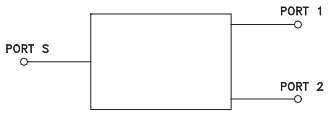

ZFSC-2-11-S+
ISOLATION




ZFSC-2-11-S+
VSWR




### electrical schematic




Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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