

# Engineering Development Model

## Directional Coupler

## ZFDC-ED13343/2

### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

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CASE STYLE : K18

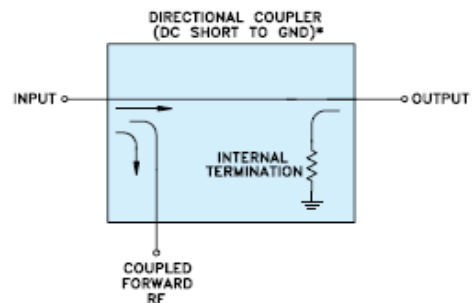
| ELECTRICAL SPECIFICATIONS 50Ω @ +25°C |               |      |        |      |       |
|---------------------------------------|---------------|------|--------|------|-------|
| Parameter                             |               | Min. | Typ.   | Max. | Units |
| Frequency                             |               | 20   |        | 2500 | MHz   |
| Coupling                              | Nominal       |      | 21 ± 1 |      | dB    |
|                                       | Flatness      |      | ± 1    |      | dB    |
| Mainline Loss *                       | 20-200 MHz    |      | 0.40   |      | dB    |
|                                       | 200-1250 MHz  |      | 0.50   |      | dB    |
|                                       | 1250-2500 MHz |      | 0.85   |      | dB    |
| Directivity                           | 20-200 MHz    |      | 30     |      | dB    |
|                                       | 200-1250 MHz  |      | 30     |      | dB    |
|                                       | 1250-2500 MHz |      | 18     |      | dB    |
| VSWR                                  | 20-2500 MHz   |      | 1.1    |      | (:1)  |
| RF Power Input                        | 20-2500 MHz   |      |        | 1.0  | W     |

Note: \* Mainline loss includes theoretical coupled power loss of 0.035 dB at 21 dB coupling.

| MAXIMUM RATINGS       |               |
|-----------------------|---------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature   | -55°C to 85°C |

| COAXIAL CONNECTIONS |   |
|---------------------|---|
| INPUT               | 3 |
| OUTPUT              | 1 |
| COUPLED             | 2 |

### Electrical Schematic



\* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) THAT ROUTES DC FROM RF PORTS TO GROUND.