

# Engineering Development Model

## Bi-Directional Coupler\*\*

## 2ZCOUP-ED12393

\*\*2 Couplers

### 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.



Please click "Back", and then click "Contact Us" for Applications support.

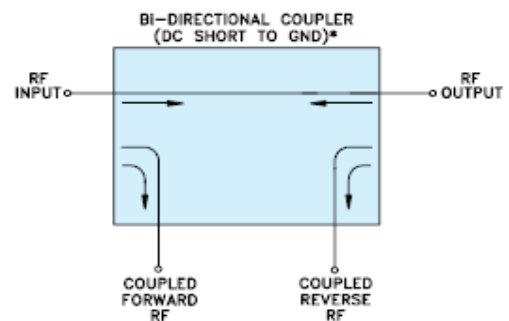
CASE STYLE : 99-01-1175

| ELECTRICAL SPECIFICATIONS 50Ω @ +25°C |              |      |        |            |
|---------------------------------------|--------------|------|--------|------------|
| Parameter                             |              | Min. | Typ.   | Max. Units |
| Frequency                             |              | 800  |        | 1550 MHz   |
| Coupling                              | Nominal      |      | 21.00  | dB         |
|                                       | Flatness     |      | ± 1.51 | dB         |
| Mainline Loss ***                     | 800-1550 MHz |      | 0.25   | dB         |
| Directivity                           | 800-1550 MHz |      | 22     | dB         |
| VSWR                                  | 800-1550 MHz |      | 1.28   | (:1)       |
| RF Power Input                        | 800-1550 MHz |      |        | 100 mW     |

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

| MAXIMUM RATINGS       |                |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature   | -55°C to 100°C |

### Electrical Schematic



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



P.O. Box 350166, Brooklyn, New York 11235-0000 (718) 934-4500 Fax (718) 332-4651 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MIN-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

RF/MICROWAVE COMPONENTS



REV. X1

2ZCOUP-ED12393

3/12/2009

Page 1 of 1