

Four-Way Power Divider 10 - 2000 MHz

DS-409-4

V2.00

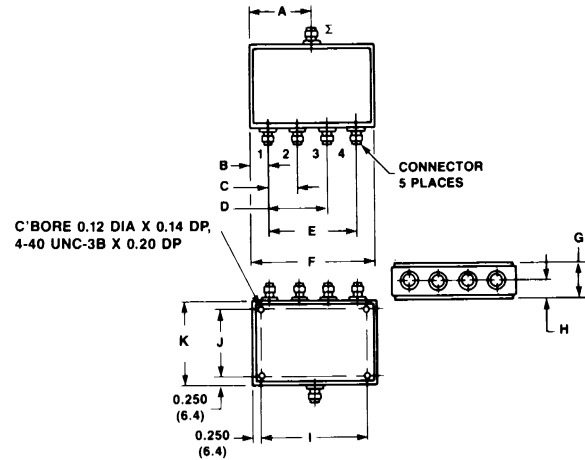
Features

- Broad Frequency Range
- Low Loss — Typically 1.0 dB

Guaranteed Specifications* (From -55°C to +85°C)

| | | |
|---|---------------|-------------|
| Frequency Range | 10-2000 MHz | |
| Insertion Loss (Less coupling) | 10-30 MHz | 0.8 dB Max |
| | 30-100 MHz | 0.6 dB Max |
| | 100-1000 MHz | 1.25 dB Max |
| | 1000-2000 MHz | 1.5 dB Max |
| Isolation | 10-30 MHz | 15 dB Min |
| | 30-100 MHz | 20 dB Min |
| | 100-1000 MHz | 25 dB Min |
| | 1000-2000 MHz | 20 dB Min |
| Amplitude Balance | 10-30 MHz | 0.25 dB Max |
| | 30-100 MHz | 0.25 dB Max |
| | 100-1000 MHz | 0.5 dB Max |
| | 1000-2000 MHz | 1.0 dB Max |
| Phase Balance | 10-30 MHz | 2.5° Max |
| | 30-100 MHz | 2.5° Max |
| | 100-1000 MHz | 5.0° Max |
| | 1000-2000 MHz | 10.0° Max |
| VSWR (All Ports) | 10-30 MHz | 2.0:1 Max |
| | 30-100 MHz | 1.5:1 Max |
| | 100-1000 MHz | 1.5:1 Max |
| | 1000-2000 MHz | 1.75:1 Max |

C-17



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ± 0.015 (.x = ± 0.4)
Weight (Approx): 10.58 ounces 300 grams

| | A | B | C | D | E | F | G | H | I | J | K |
|----------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------------|----------------------------------|-----------------|-----------------|-----------------|
| DS-409-4 | 1.625 (40.34) | 0.593 (15.06) | 0.688 (17.47) | 1.376 (34.95) | 2.064 (52.42) | 3.250 (82.6) | 0.770± 0.020 (19.6± 0.5) | 0.375± 0.020 (9.5± 0.5) | 2.750 (69.9) | 1.000 (25.4) | 1.500 (38.1) |

Operating Characteristics

| | |
|--|-----------------|
| Impedance | 50 Ohms Nominal |
| Maximum Power Rating or Input Power | 5.0 Watts Max |
| Internal Load Dissipation | 0.5 Watt Max |

Environmental

MIL-STD-202 screening available.

* All specifications apply with 50 ohm source and load impedance.

Ordering Information

| Model No. | Package |
|--------------|---------------|
| DS-409-4 BNC | Connectorized |
| DS-409-4 SMA | Connectorized |
| DS-409-4 TNC | Connectorized |
| DS-409-4 N | Connectorized |

Typical Performance

