

Two-Way Power Divider 10 - 2000 MHz

DS-/DSS-313

V2.00

Features

- 1 Fully Hermetic Package (DSS-313)
- 1 0.6 dB Typical Midband Loss
- 1 28 dB Typical Midband Isolation
- 1 1.2:1 Typical Midband VSWR
- 1 MIL-STD-202 Screening Available

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

| Part Number | DS-313 | DSS-313 |
|--------------------------------|---------------|-------------|
| Frequency Range | 10 - 2000 MHz | |
| Insertion Loss (Less Coupling) | | |
| 20-1000 MHz | 1.1 | 1.1 dB Max. |
| 10 - 1500 MHz | 1.3 | 1.3 dB Max. |
| 1500 - 2000 MHz | 1.8 | 1.8 dB Max. |
| Isolation | | |
| 20 - 1000 MHz | 23 | 22 dB Min. |
| 10 - 1500 MHz | 18 | 18 dB Min. |
| 1500 - 2000 MHz | 12 | 12 dB Min. |
| Amplitude Balance | | |
| 20 - 1000 MHz | 0.3 | 0.3 dB Max. |
| 10 - 1500 MHz | 0.4 | 0.4 dB Max. |
| 1500 - 2000 MHz | 0.6 | 0.6 dB Max. |
| Phase Balance | | |
| 20 - 1000 MHz | 4° | 5° Max. |
| 10 - 1500 MHz | 6° | 8° Max. |
| 1500 - 2000 MHz | 8° | 11° Max. |
| VSWR(All Ports) | | |
| 20 - 1000 MHz | 1.5 | 1.5 Max. |
| 10 - 1500 MHz | 1.6 | 1.6 Max. |
| 1500 - 2000 MHz | 1.8 | 1.8 Max. |

Operating Characteristics

| | |
|-------------------------------------|-----------------|
| Impedance | 50 Ohms Nominal |
| Maximum Power Rating or Input Power | 250 mW Max. |
| Internal Load Dissipation | 50 mW Max. |

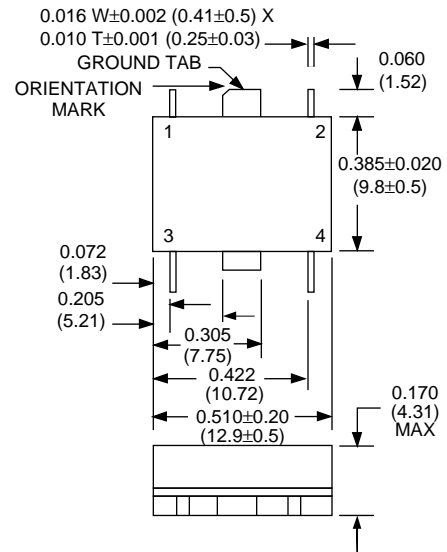
*All specifications apply with 50 ohm source and load impedance.

Pin Configuration

| Part Number | DS-313 | DSS-313 |
|-------------|--------|---------|
| Σ | P1 | P1 |
| Output C | P4 | P2 |
| Output D | P8 | P4 |

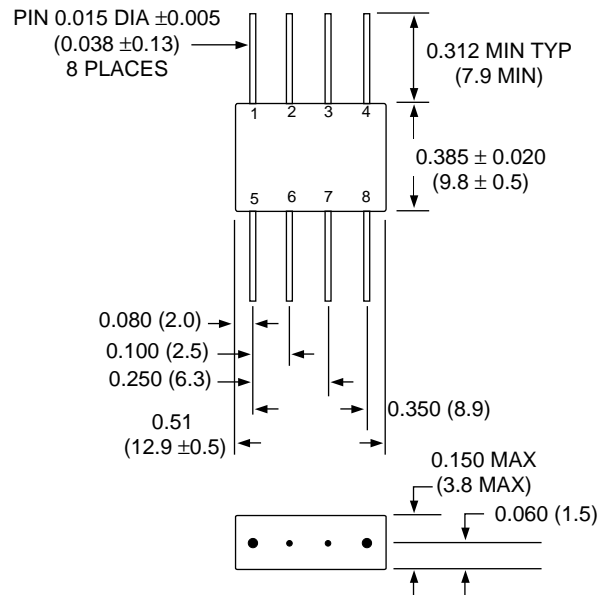
Case and all other pins are ground.

SF-1



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

FP-2



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

Specifications Subject to Change Without Notice.

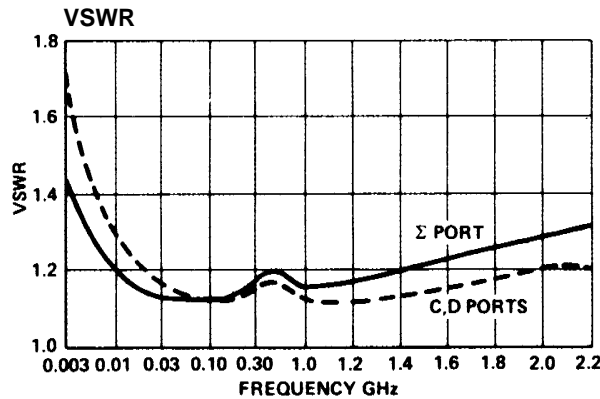
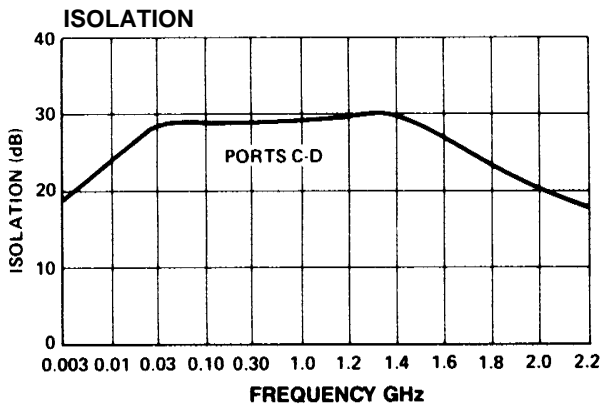
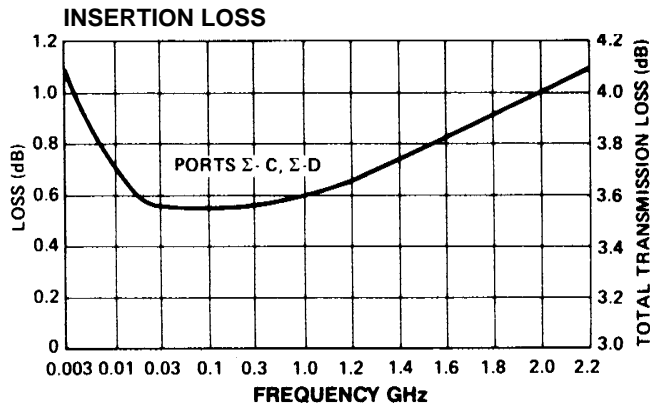
M/A-COM, Inc.

North America: Tel. (800) 366-2266 n Asia/Pacific: Tel. +81 (03) 3226-1671 n Europe: Tel. +44 (1344) 869 595
Fax (800) 618-8883 Fax +81 (03) 3226-1451 Fax +44 (1344) 300 020

Ordering Information

| | |
|--------------------------------------------------|----------------------------------------------------------------|
| <p>Part Number DS-313 DSS-313</p> | <p>Package FP-2 Flatpack SF-1 Surface Mount</p> |
|--------------------------------------------------|----------------------------------------------------------------|

Typical Performance



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