

# Two-Way Power Divider 10 - 2000 MHz

## DS-/DSS-313

V2.00

### Features

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

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

Part Number	DS-313	DSS-313
Frequency Range	10-2000 MHz	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.

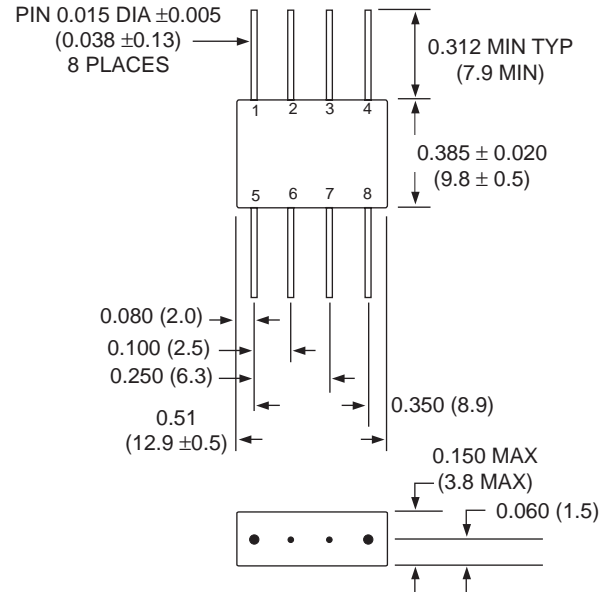
\*All specifications apply with 50 ohm source and load impedance.

### Pin Configuration

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

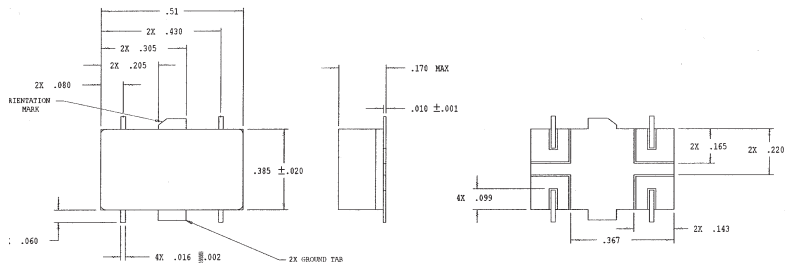
Case and all other pins are ground.

### 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

### SF-1



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

Ordering Information

Part Number	Package
DS-313	FP-2 Flatpack
DSS-313	SF-1 Surface Mount

Typical Performance

