

BI-DIRECTIONAL COUPLER

SURFACE MOUNT MODEL: SDCHP-255

WIDE BANDWIDTH

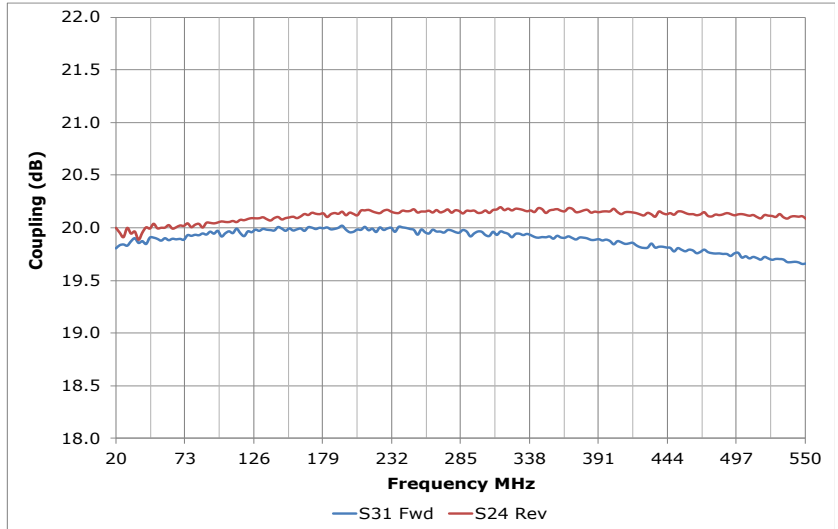
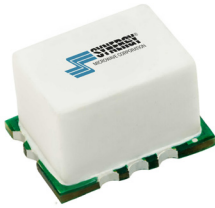
20 - 550 MHz

FEATURES:

- ▶ High Power Rating
- ▶ Low Insertion Loss
- ▶ Excellent Coupling Flatness
- ▶ High Directivity

APPLICATION:

- ▶ Antenna Signal Monitoring



SPECIFICATIONS

| | | | |
|--|-------------------------------|--------------|------|
| Frequency | 20 - 550 MHz | | |
| Coupling | 20 ±0.6 dB (Nom.) | | |
| Coupling Flatness | ±0.4 dB (Max.) | | |
| Mainline Loss ¹ | Freq. (MHz) | Typ. | Max. |
| | 20 - 220 | 0.13 | 0.25 |
| | 200 - 400 | 0.17 | 0.28 |
| Directivity (dB) ² | Freq. (MHz) | Typ. | Min. |
| | 20 - 220 | 25 | 20 |
| | 200 - 400 | 25 | 20 |
| Input Power Rating | Freq. (MHz) | Watts (Avg.) | |
| | 20 - 350 | 30 | |
| | 350 - 550 | 25 | |
| Impedance | 50 Ohms (Nom.) | | |
| VSWR | 1.15:1 (Typ.) / 1.30:1 (Max.) | | |
| Operating Temperature Range | -40 to +85 °C | | |
| Storage Temperature Range | -55 to +100 °C | | |
| ¹ Including Coupling Loss. ² Directivity is the isolation value minus the coupling value. | | | |

Package # 129LF-3

DETAIL - A

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301.
 TOLERANCES ON THREE DIMENSIONS ARE IN INCHES.
 DECIMAL PLACES= ± 0.015

| PORT CONFIGURATION | | | | |
|--------------------|--------|--------------|--------------|------------|
| Input | Output | FWD. Coupled | REV. Coupled | Gnd. |
| 1 | 6 | 3 | 4 | All Others |

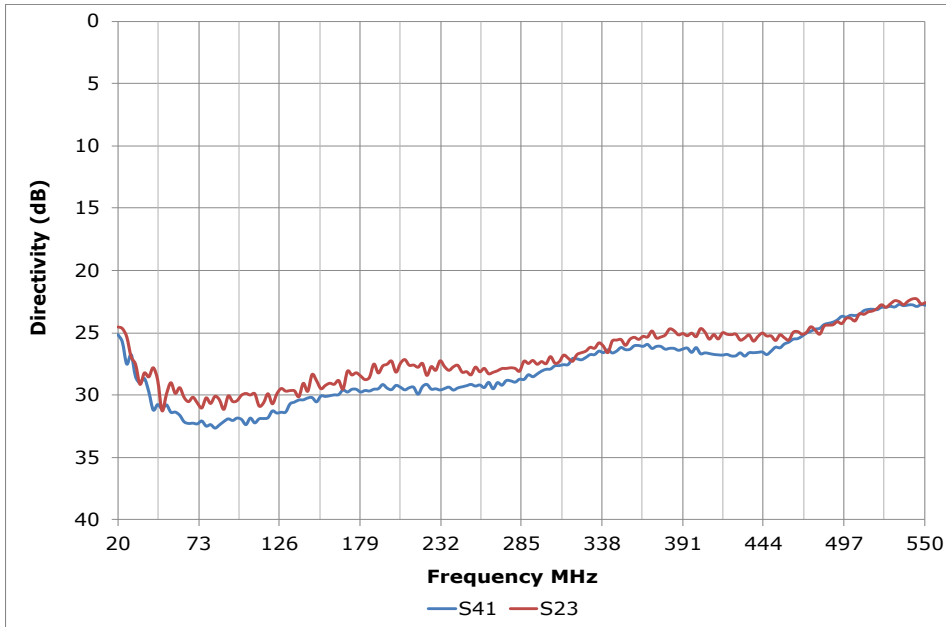
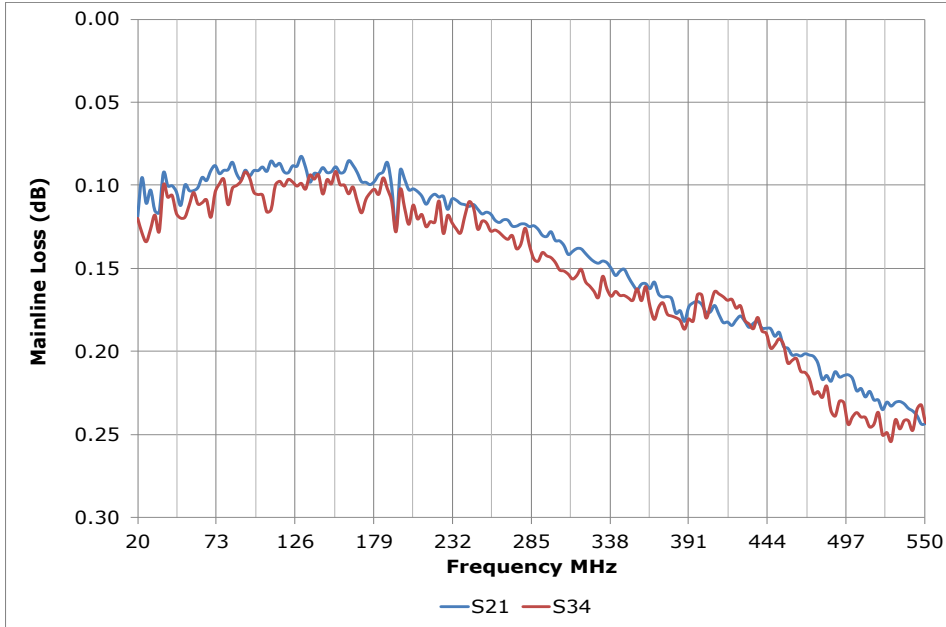
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PERFORMANCE PLOTS

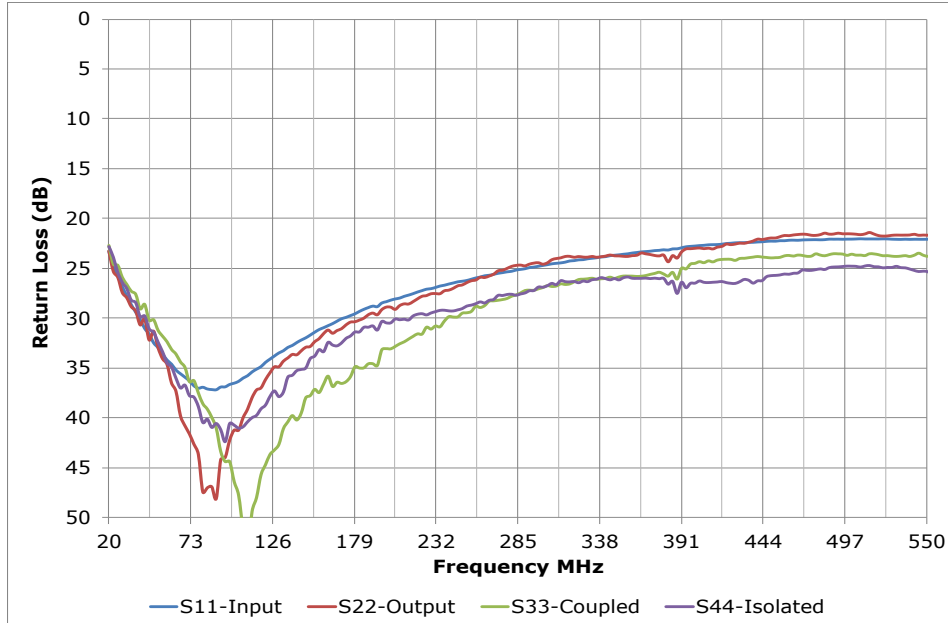


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