

# DIRECTIONAL COUPLER

## FLAT PACK MODEL: KBF-143

**WIDE BANDWIDTH**

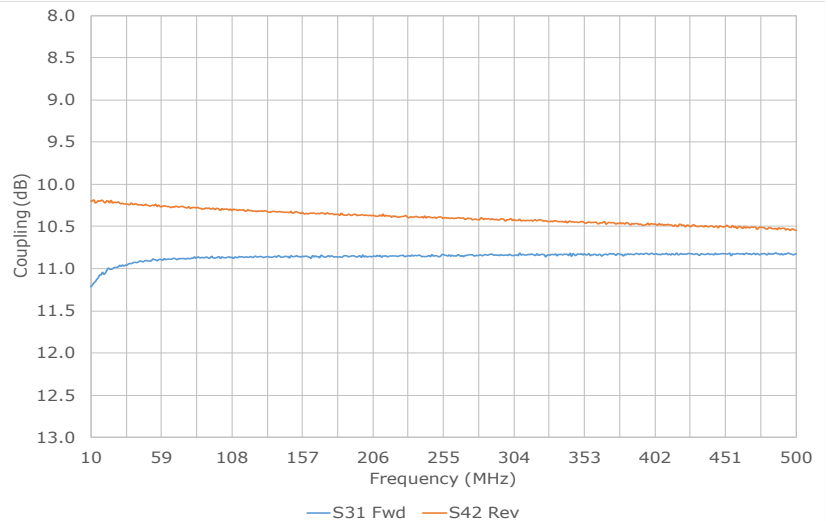
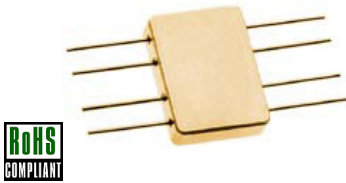
**10 - 500 MHz**

### FEATURES:

- ▶ Wide Bandwidth
- ▶ Good Coupling Flatness

### APPLICATION:

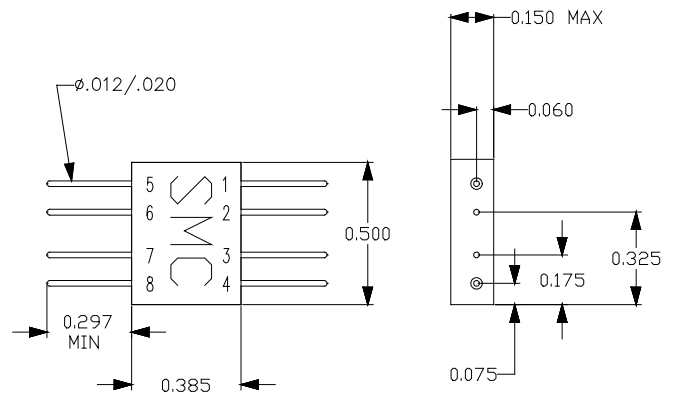
- ▶ Signal Monitoring
- ▶ Signal Splitting
- ▶ Signal Detection



### SPECIFICATIONS

|                                            |                   |      |      |
|--------------------------------------------|-------------------|------|------|
| Frequency                                  | 10 - 500 MHz      |      |      |
| Coupling                                   | 10.8 dB (±0.7 dB) |      |      |
| Coupling Flatness                          | ±0.5 dB           |      |      |
| Mainline Loss *                            | Freq. (MHz)       | Typ. | Max. |
|                                            | 10 - 100          | 1.0  | 1.3  |
|                                            | 100 - 250         | 1.0  | 1.4  |
|                                            | 250 - 500         | 1.2  | 1.6  |
| Directivity (dB)                           | Freq. (MHz)       | Typ. | Min. |
|                                            | 10 - 100          | 23   | 20   |
|                                            | 100 - 250         | 28   | 24   |
|                                            | 250 - 500         | 23   | 20   |
| Return Loss (dB)                           | Freq. (MHz)       | Typ. |      |
|                                            | 10 - 100          | 18   |      |
|                                            | 100 - 250         | 23   |      |
|                                            | 250 - 500         | 23   |      |
| Input Power                                | 0.5 Watt (Max.)   |      |      |
| Impedance                                  | 50 Ohms (Nom.)    |      |      |
| Operating Temperature Range                | -50 to +85 °C     |      |      |
| * Includes 0.36 dB theoretical split loss. |                   |      |      |

Package # 101



### PORT CONFIGURATION

| Input | Output | Fwd. Coupled | Rev. Coupled | Ground     |
|-------|--------|--------------|--------------|------------|
| 1     | 5      | 4            | 8            | All Others |

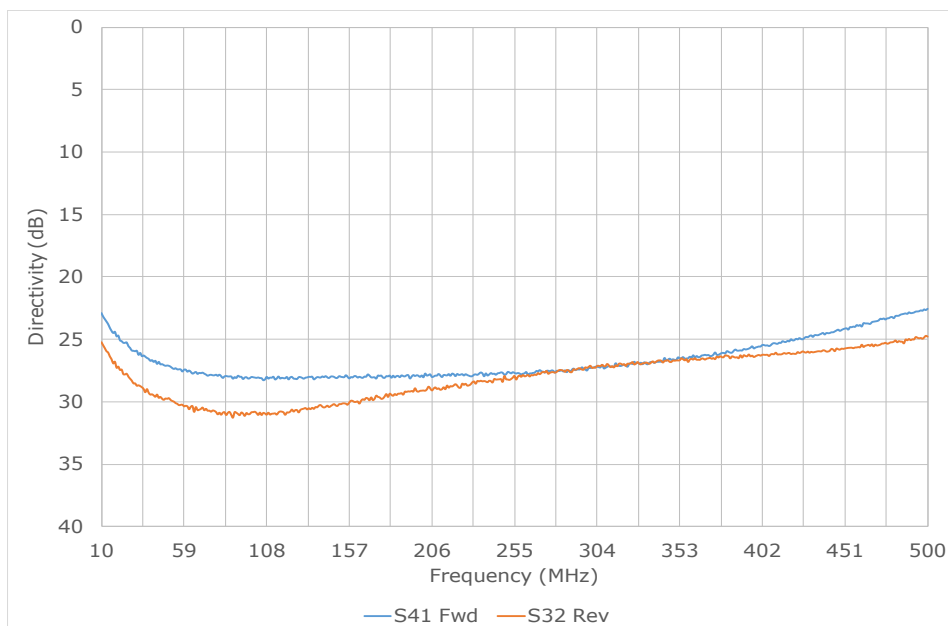
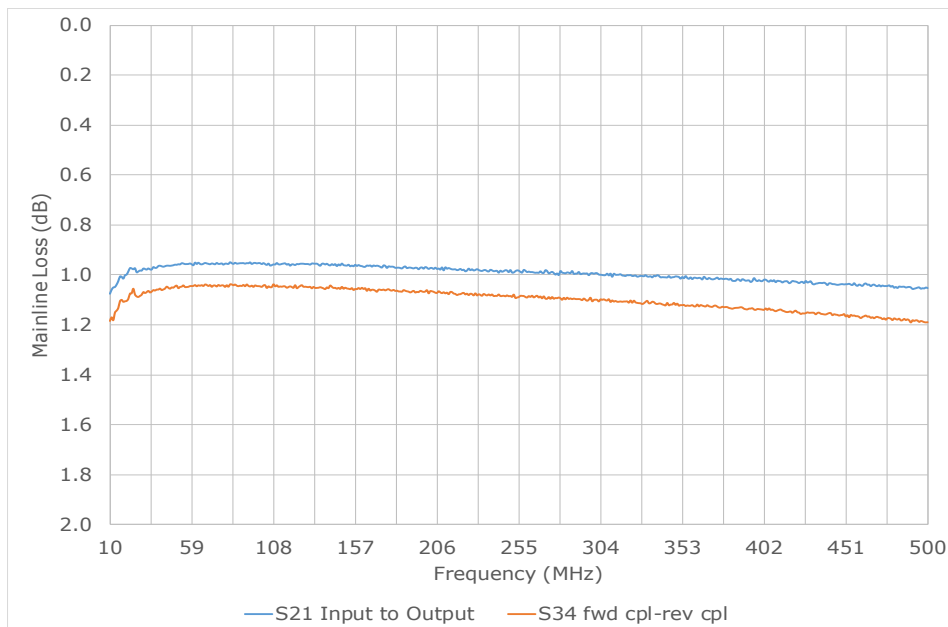
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PERFORMANCE PLOTS

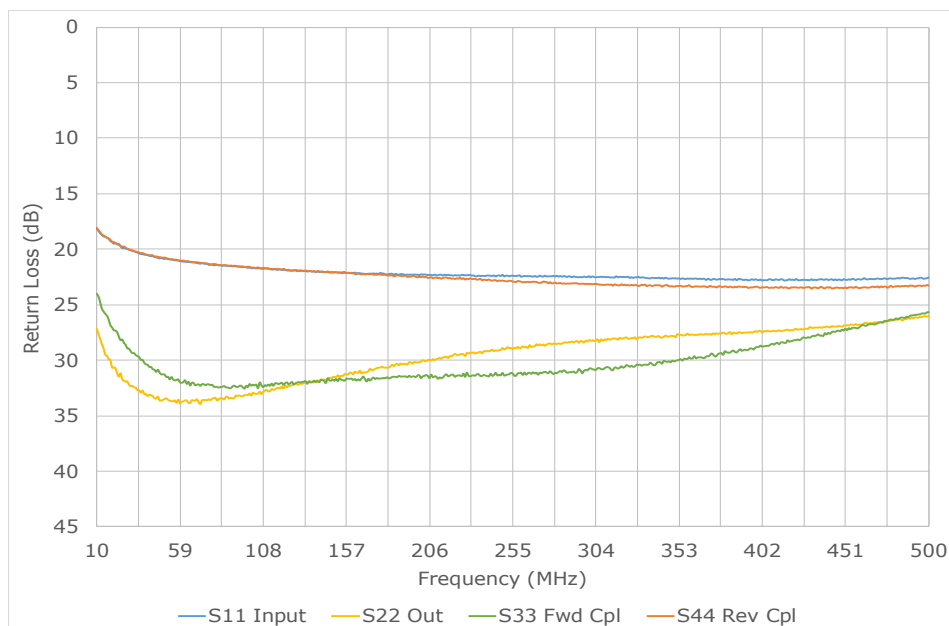


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PERFORMANCE PLOTS