

BI-DIRECTIONAL COUPLER

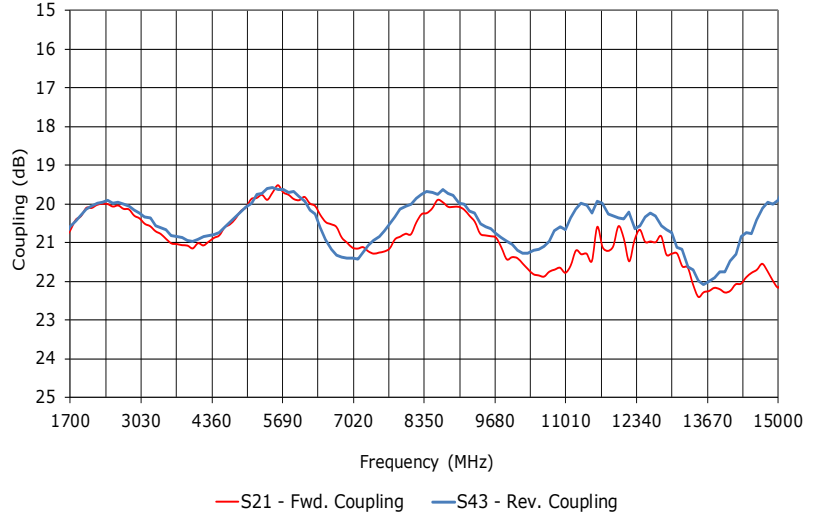
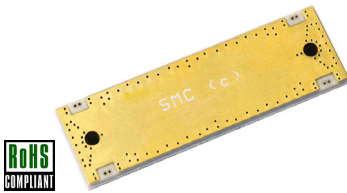
SYNSTRIP® MODEL: SCS1701650-20

WIDE BANDWIDTH

1.7 - 15 GHz

FEATURES:

- ▶ SYNSTRIP® Technology
- ▶ Small Size, Surface Mount
- ▶ Optimum Performance



SPECIFICATIONS (Rev. D 11/14/14)

| | |
|--------------------|----------------------------|
| Frequency | 1700 - 15000 MHz |
| Coupling | 21 dB \pm 1.5 dB (Nom.) |
| Coupling Flatness | \pm 2.5 dB (Max.) |
| Mainline Loss | 1.3 dB (Max.) |
| Directivity (dB) | 10 dB (Typ.) / 7 dB (Min.) |
| Input Power Rating | 25 Watts (Ave.) |

| | |
|-----------------------------|----------------|
| Impedance | 50 Ohms (Nom.) |
| VSWR | 1.35:1 (Typ.) |
| Operating Temperature Range | -40 to +85 °C |

BI-DIRECTIONAL COUPLER

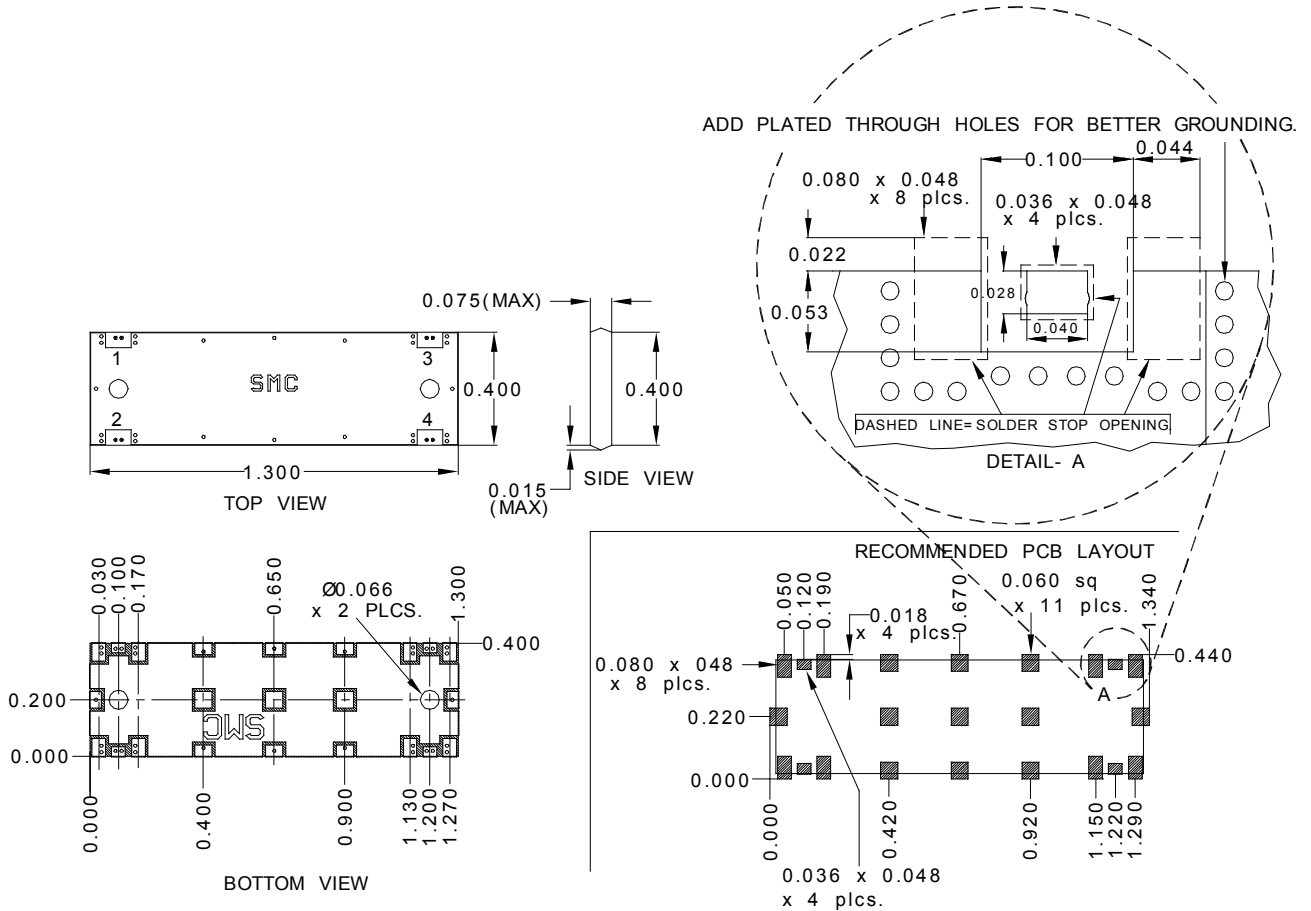
SYNSTRI[®] MODEL: SCS1701650-20

WIDE BANDWIDTH

1.7 - 15 GHz

Package # 327

REL-PRO[®] PATENT NO. 7,612,296



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

PORT CONFIGURATION

| | PORT CONFIGURATION | | | |
|----------|--------------------|---------|---------|---------|
| In \ Out | 1 | 2 | 3 | 4 |
| 1 | | Coupled | Thru | Iso |
| 2 | Coupled | | Iso | Thru |
| 3 | Thru | Iso | | Coupled |
| 4 | Iso | Thru | Coupled | |

* For directional coupler operation, connect 50 Ohms load from isolated port to ground.

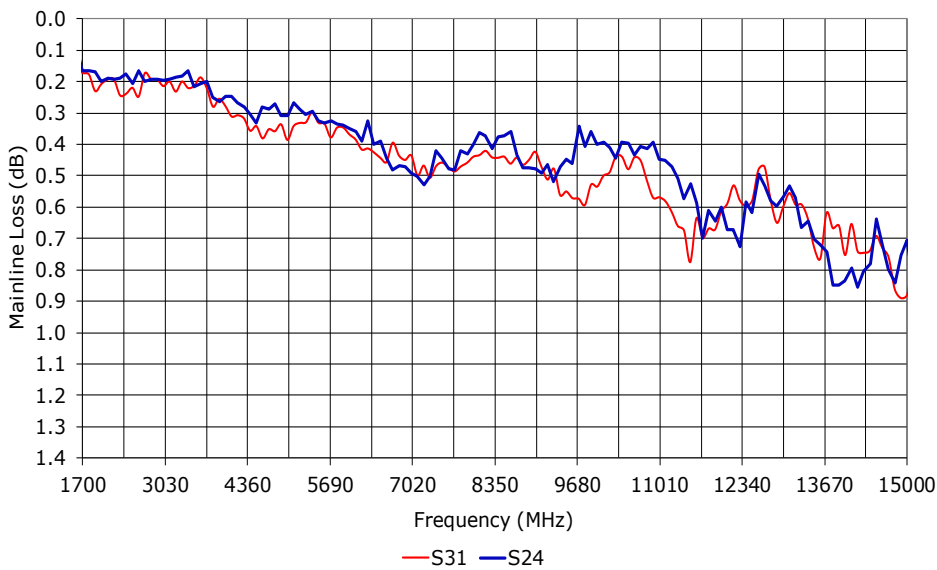
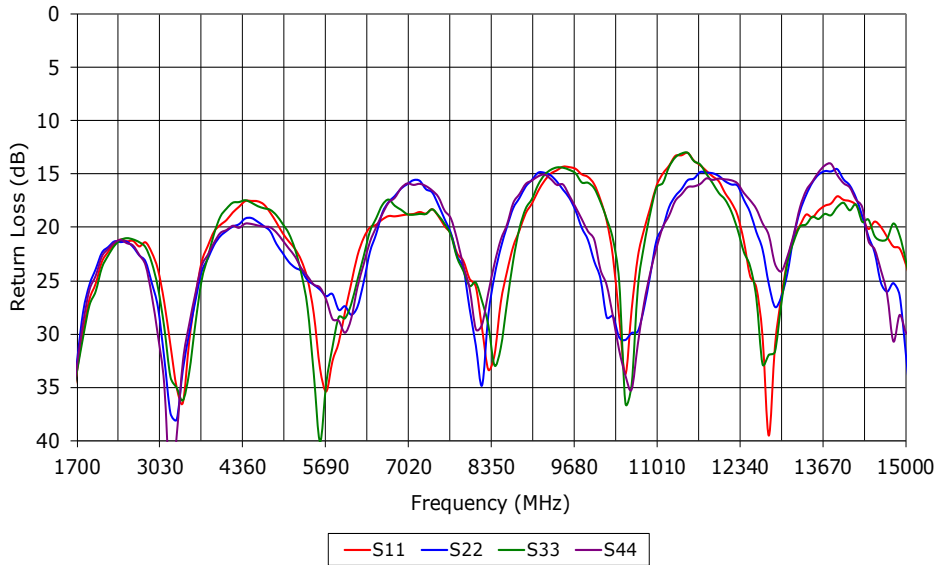
BI-DIRECTIONAL COUPLER

SYNSTRI[®] MODEL: SCS1701650-20

WIDE BANDWIDTH

1.7 - 15 GHz

PERFORMANCE PLOTS

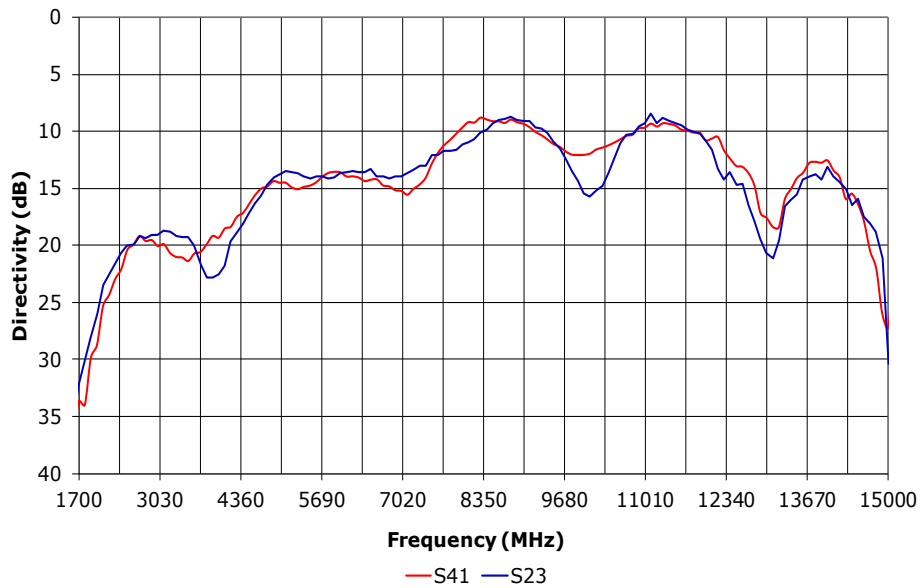


BI-DIRECTIONAL COUPLER

SYNSTRIIP® MODEL: SCS1701650-20

WIDE BANDWIDTH

1.7 - 15 GHz



PERFORMANCE PLOTS