

# BI-DIRECTIONAL COUPLER

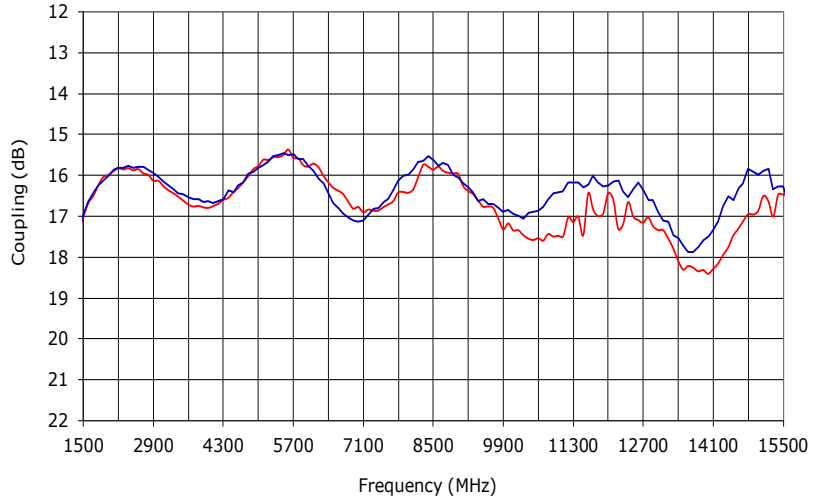
## SYNSTRI<sup>®</sup> MODEL: SCS1701650-16

**WIDE BANDWIDTH**

**1500 - 15500 MHz**

**FEATURES:**

- ▶ SYNSTRI<sup>®</sup> Technology
- ▶ Small Size, Surface Mount
- ▶ Optimum Performance



— S21 - Fwd. Coupling    — S43 - Rev. Coupling

**SPECIFICATIONS (Rev. B 11/17/14)**

<b>Frequency</b>	1500 - 15500 MHz		
<b>Coupling</b>	17.0 dB ±1.5 dB (Nom.)		
<b>Coupling Flatness</b>	±2.5 dB (Max.)		
<b>Mainline Loss</b>	dB (Typ.)	dB (Max.)	
	1.0	1.4	
<b>Directivity</b>	Freq. (MHz)	dB (Typ.)	dB (Min.)
	1700-4500	18	12
	4500-10000	16	5
<b>Input Power Rating</b>	25 Watts (Ave.)		
<b>Impedance</b>	50 Ohms (Nom.)		
<b>VSWR</b>	1.4:1 (Typ.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		

**Package # 327**

REL-PRO<sup>®</sup> PATENT NO. 7,612,296

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

PORT CONFIGURATION					
In	Out	1	2	3	4
1			Coupled	Thru	Iso
2		Coupled		Iso	Thru
3		Thru	Iso		Coupled
4		Iso	Thru	Coupled	



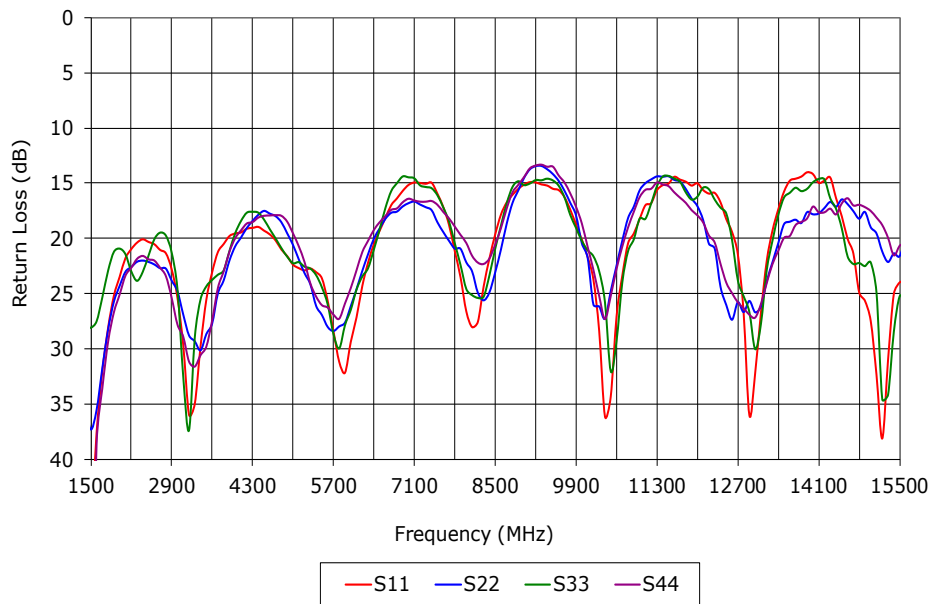
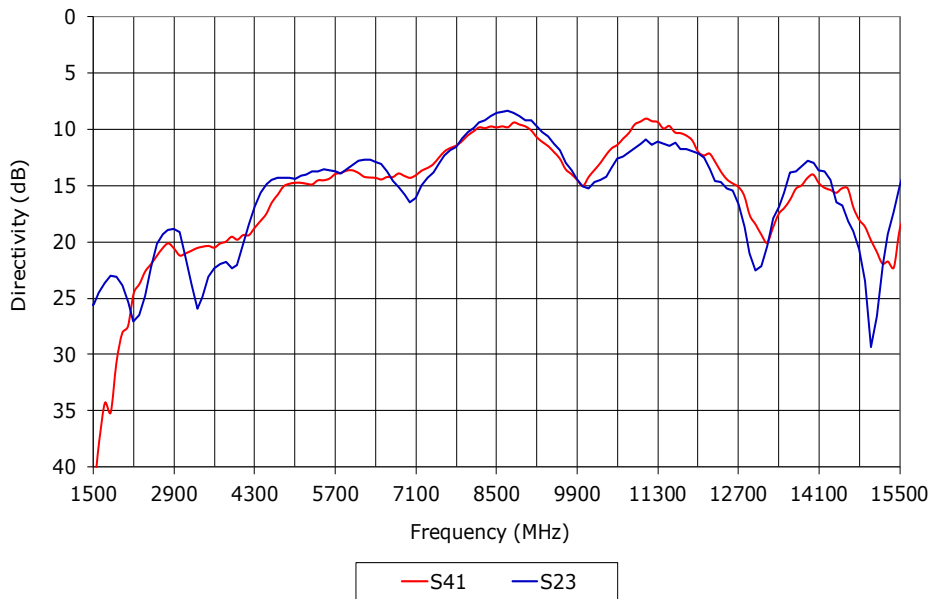
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## SYNSTRIIP® MODEL: SCS1701650-16

WIDE BANDWIDTH

1500 - 15500 MHz

PERFORMANCE PLOTS

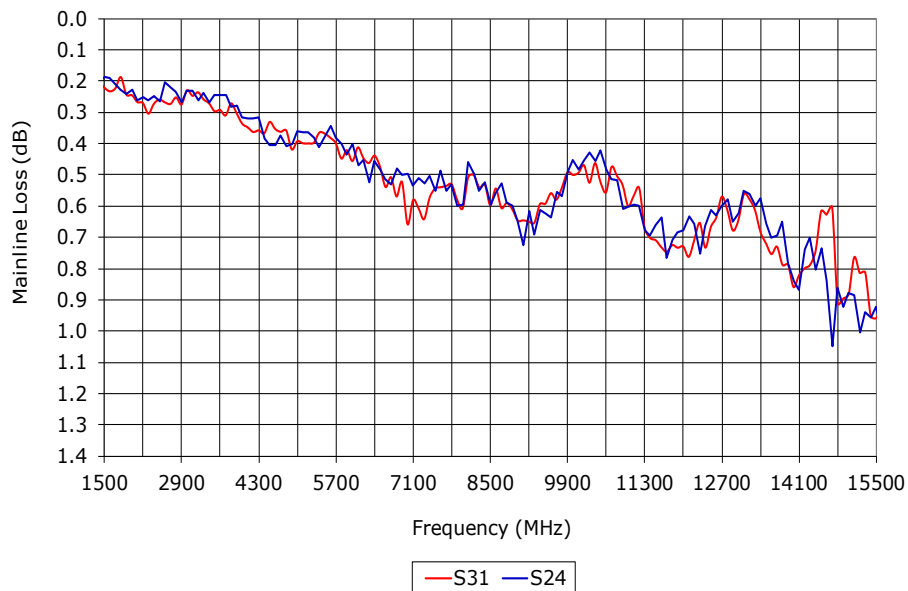


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## SYNSTRIIP® MODEL: SCS1701650-16

WIDE BANDWIDTH

1500 - 15500 MHz



PERFORMANCE PLOTS

# BI-DIRECTIONAL COUPLER

## *SYNSTRIP*<sup>®</sup> MODEL: SCS1701650-16

**WIDE BANDWIDTH**

**1500 - 15500 MHz**

### SPECIFICATION SHEET REVISION RECORD

REV	COMMENT	BY	DATE	
---	Initial Release	---	---	
A	Changed page layout and updated specifications to reflect plots.	TA	01/13/09	
B	OLD	NEW		
	<b>Frequency</b>	1700 - 10000 MHz	1500 - 15500 MHz	
	<b>Coupling</b>	16.5 dB ±1.5 dB (Nom.)	17.0 dB ±1.5 dB (Nom.)	
	<b>Mainline Loss</b>	dB (Typ.)	dB (Max.)	dB (Typ.)
		0.6	1.0	1.0
<b>VSWR</b>	1.3:1 (Typ.)	1.4:1 (Typ.)		
		TA	11/17/14	