

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SCCHP-560

**WIDE BANDWIDTH**

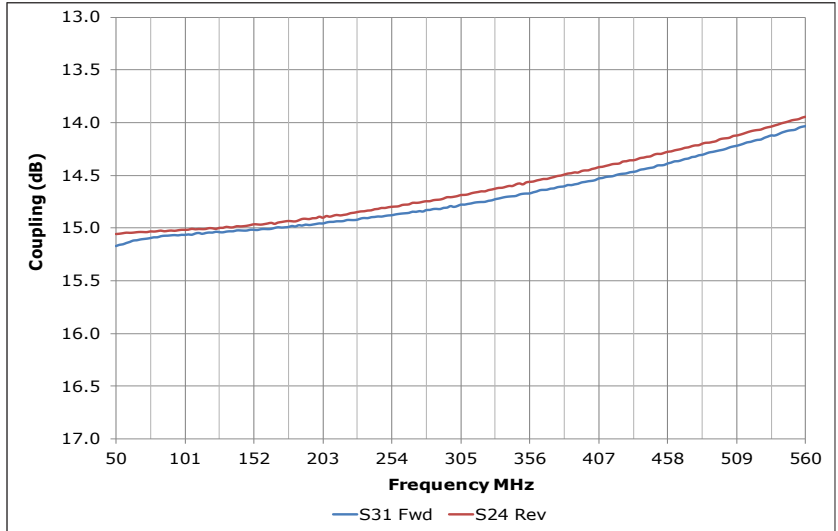
**50 - 560 MHz**

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



**SPECIFICATIONS (Rev. C 06/22/22)**

Frequency	50 - 560 MHz		
Coupling	14.6 ±0.7 dB (Nom.)		
Coupling Flatness	±0.7 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	50 - 200	0.30	0.45
	200 - 400	0.38	0.55
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	50 - 200	27	23
	200 - 400	23	20
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	50 - 150	100	
	150 - 350	75	
	350 - 560	50	
Impedance	50 Ohms (Nom.)		
VSWR	1.35:1 (Typ.) / 1.50:1 (Max.)		
Operating Temperature Range	-40 to +85 °C		
Storage Temperature Range	-55 to +100 °C		

<sup>1</sup> Including Coupling Loss.  
<sup>2</sup> Directivity is the isolation value minus the coupling value.

**Package #** 255-2

**PORT CONFIGURATION**

Input	Output	FWD. Coupled	REV. Coupled	Gnd.
6	1	4	3	2,5

**Functional Diagram**

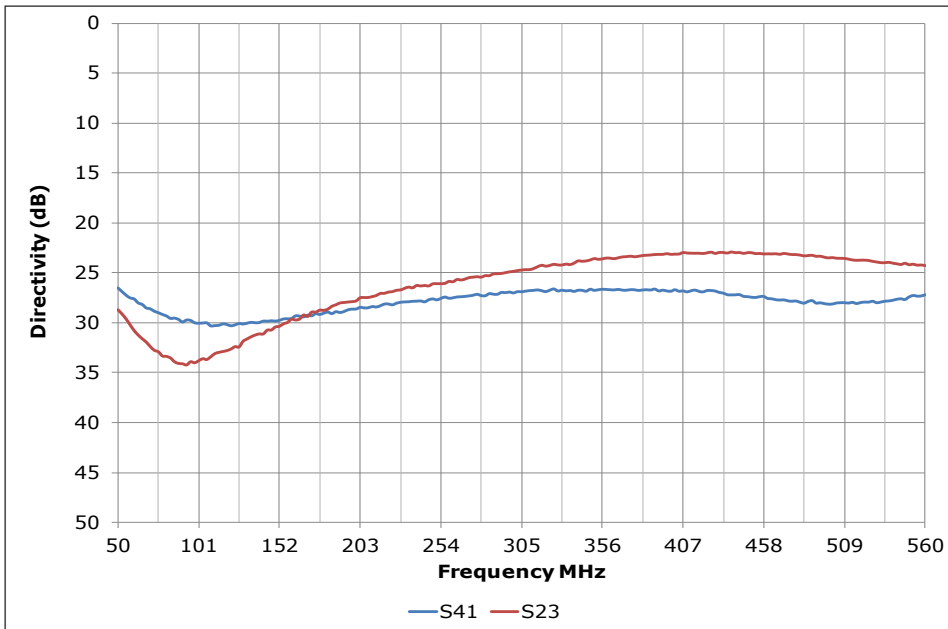
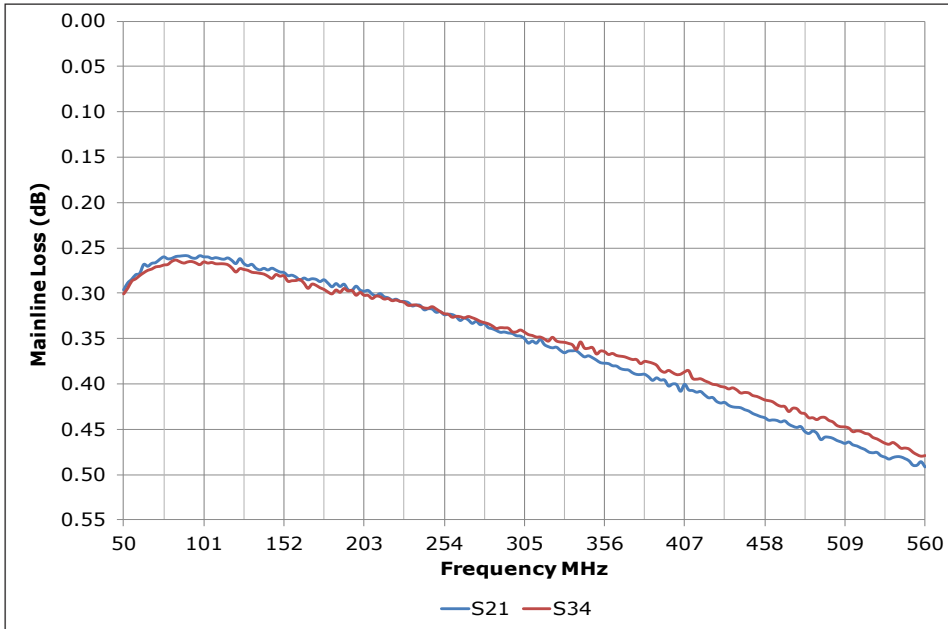
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PERFORMANCE PLOTS

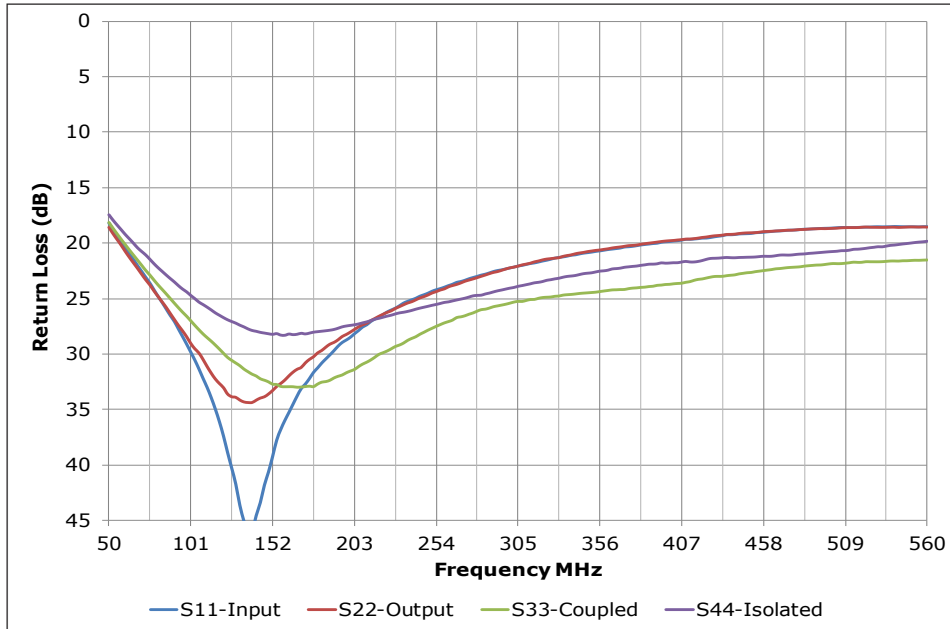


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