

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SDCHP-484

WIDE BANDWIDTH

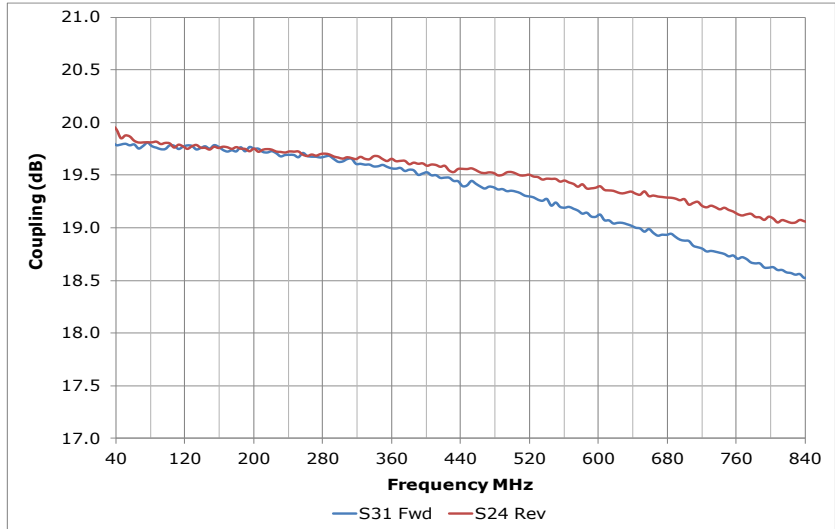
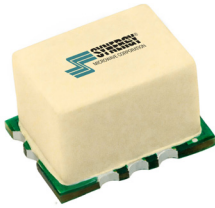
40 - 840 MHz

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



**SPECIFICATIONS (Rev. A 02/24/22)**

<b>Frequency</b>	40 - 840 MHz		
<b>Coupling</b>	19.2 ±0.8 dB (Nom.)		
<b>Coupling Flatness</b>	±0.9 dB (Max.)		
<b>Mainline Loss <sup>1</sup></b>	Freq. (MHz)	Typ.	Max.
	40 - 120	0.13	0.20
	120 - 500	0.21	0.30
<b>Directivity (dB) <sup>2</sup></b>	Freq. (MHz)	Typ.	Min.
	40 - 120	24	20
	120 - 500	30	23
<b>Input Power Rating</b>	Freq. (MHz)	Watts (Avg.)	
	40 - 120	45	
	120 - 500	30	
500 - 840	15		
<b>Impedance</b>	50 Ohms (Nom.)		
<b>VSWR</b>	1.32:1 (Typ.) / 1.40:1 (Max.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		
<b>Storage Temperature Range</b>	-55 to +100 °C		

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

**Package #** 129LF-3

**PACKAGE MOUNTING:** SEE APPLICATION NOTE AN7301.  
**TOLERANCES ON THREE DECIMAL PLACES= ± 0.015**

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

**Functional Diagram**

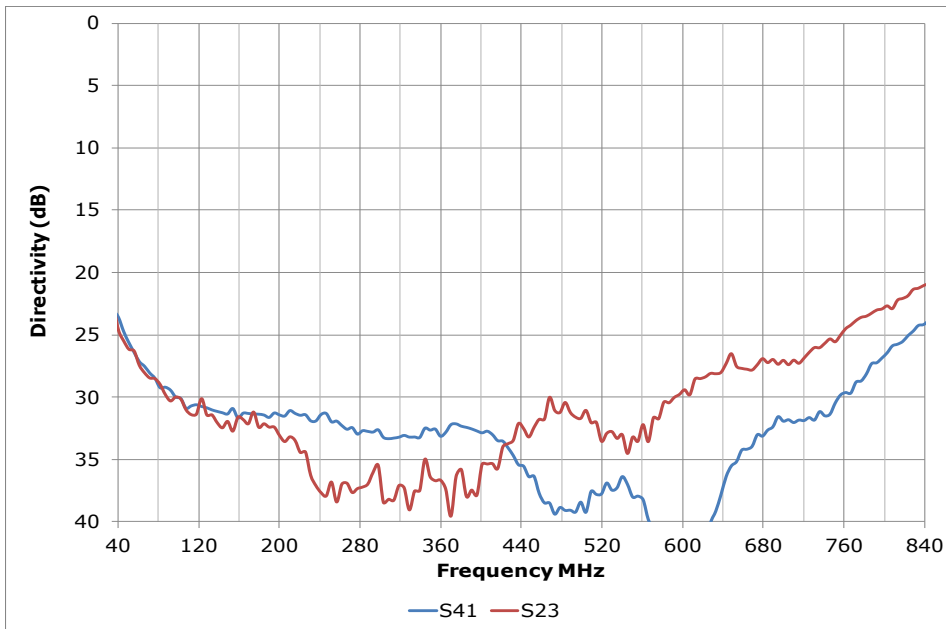
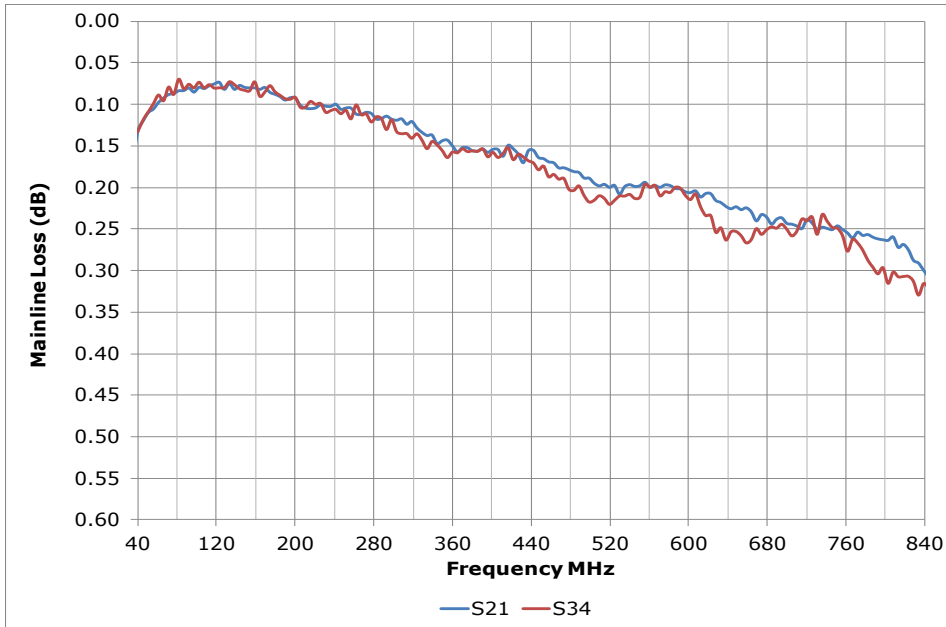
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PERFORMANCE PLOTS

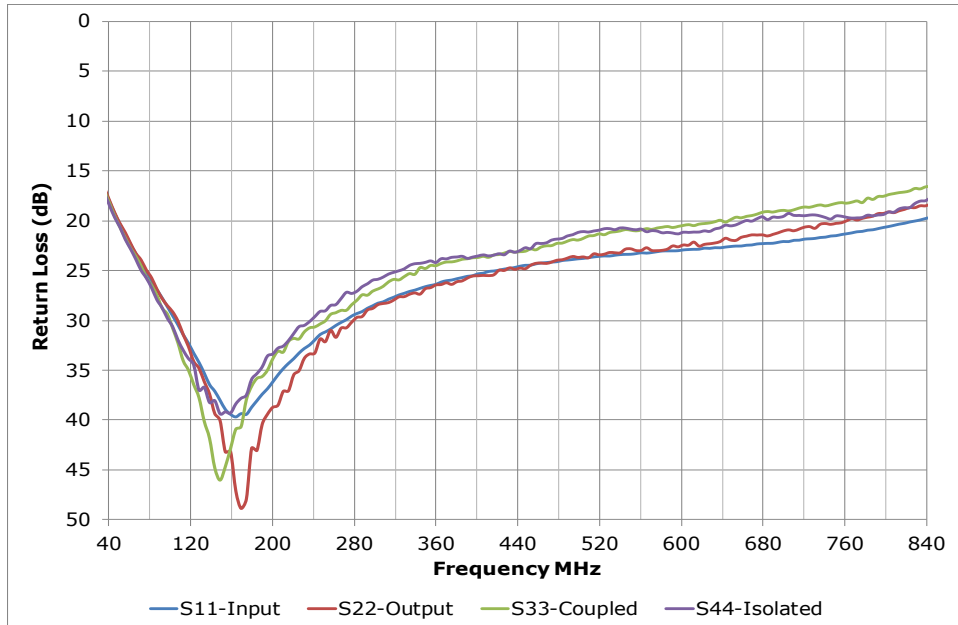


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