

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SDCHP-140

WIDE BANDWIDTH

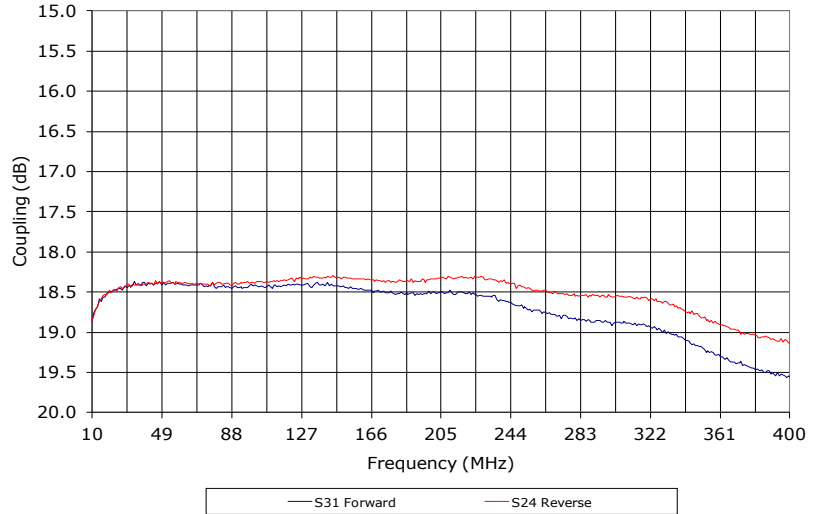
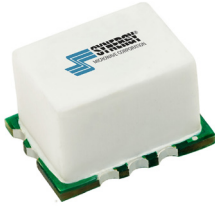
10 - 400 MHz

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



**SPECIFICATIONS**

Frequency	10 - 400 MHz		
Coupling	18.75 ±1.0 dB (Nom.)		
Coupling Flatness	±1.0 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	10 - 50	0.18	0.25
	50 - 200	0.15	0.3
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	10 - 50	22	14
	50 - 200	28	23
Input Power Rating <sup>3</sup>	Freq. (MHz)	Watts (Avg.)	
	10 - 250	30	
	250 - 400	20	
Impedance	50 Ohms (Nom.)		
VSWR	1.3:1 (Typ.)		
Operating Temperature Range	-40 to +70 °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.

<sup>3</sup> For any load impedance connected to the output port.

**Package #** 129LF-1

**DETAIL - A**

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

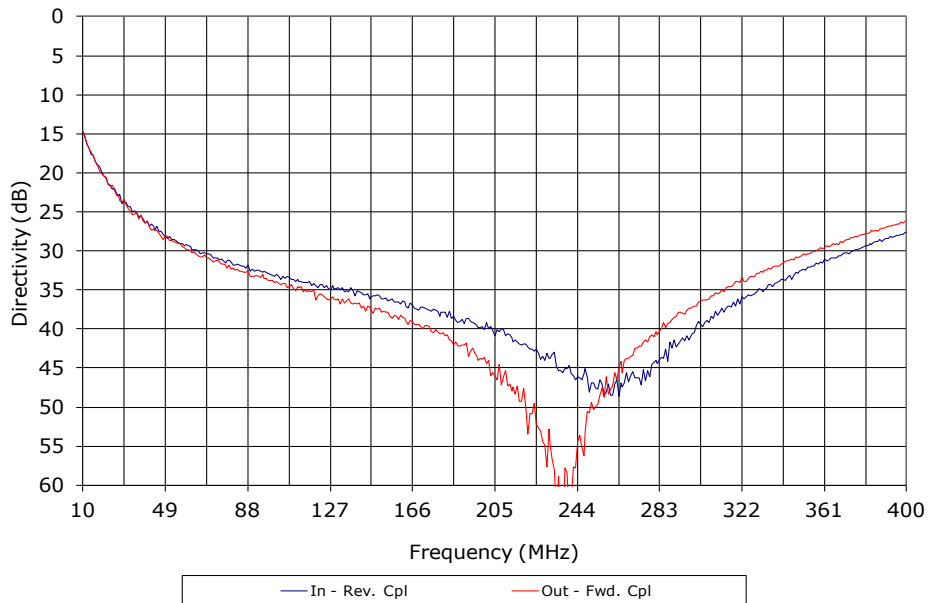
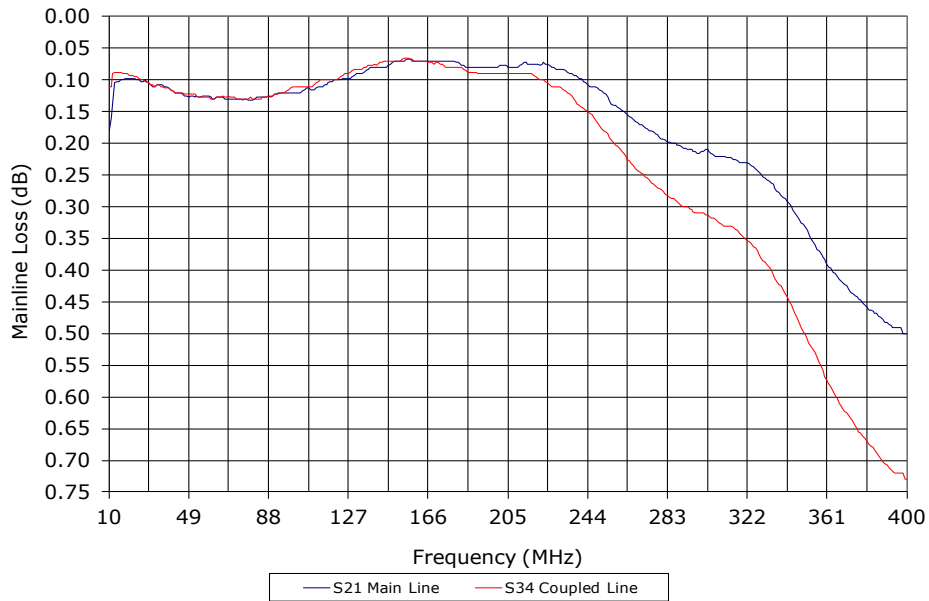
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PERFORMANCE PLOTS



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