

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SDCHP-125

WIDE BANDWIDTH

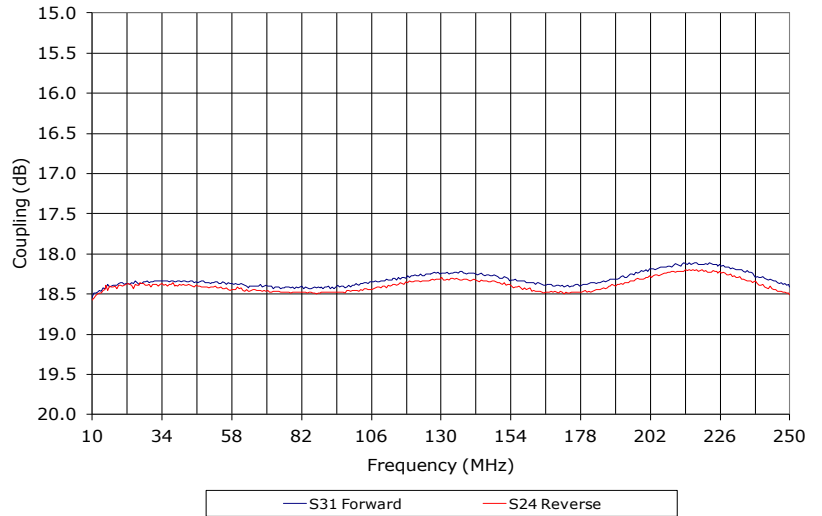
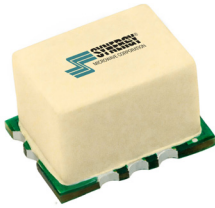
10 - 250 MHz

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



**SPECIFICATIONS (Rev. A 06/20/22)**

Frequency	10 - 250 MHz		
Coupling	18.5 ±1.0 dB (Nom.)		
Coupling Flatness	±0.5 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	10 - 20	0.1	0.2
	20 - 125	0.15	0.3
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	10 - 20	23	15
	20 - 125	25	20
Storage Temperature Range	-55 to +100 °C		
	Operating Temperature Range		
	-40 to +70 °C		
Input Power Rating <sup>3</sup>	30 Watts (Avg.)		
Impedance	50 Ohms (Nom.)		
VSWR	1.3:1 (Typ.)		
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-3

**DETAIL - A**

RECOMMENDED PCB LAYOUT

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301.  
 TOLERANCES ON THREE DIMENSIONS ARE IN INCHES.  
 DECIMAL PLACES= ± 0.015

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

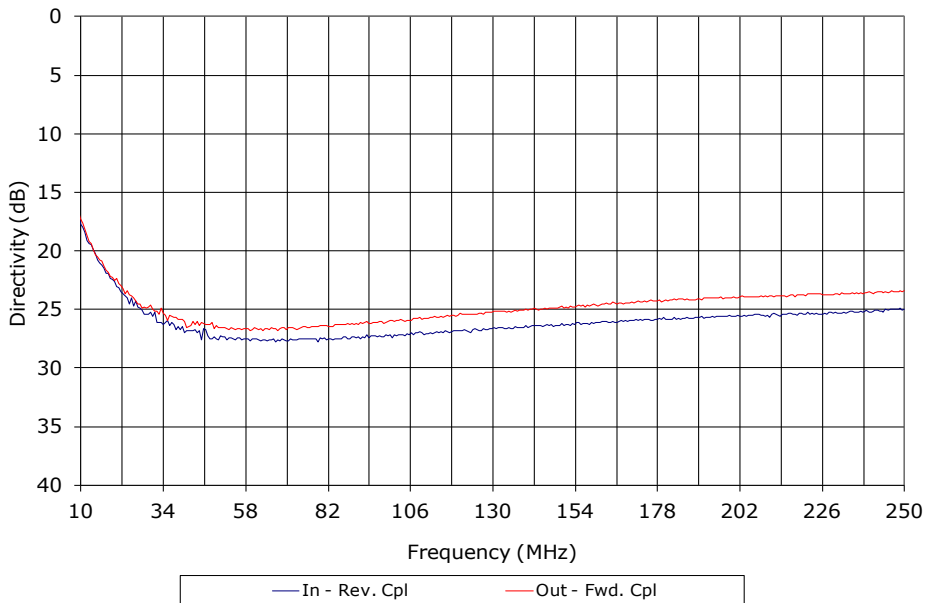
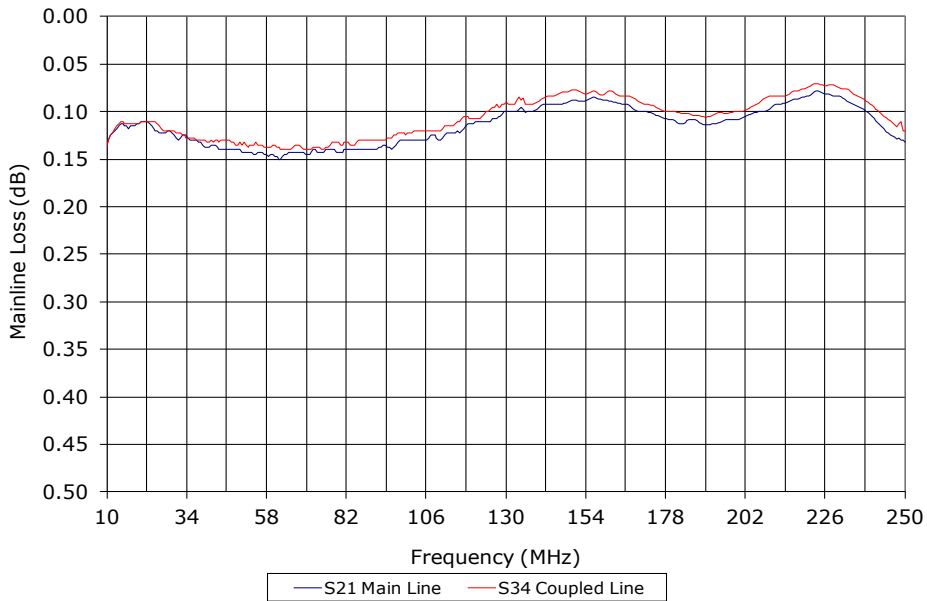
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