

BI-DIRECTIONAL COUPLER

SURFACE MOUNT MODEL: SDCHP-484

WIDE BANDWIDTH

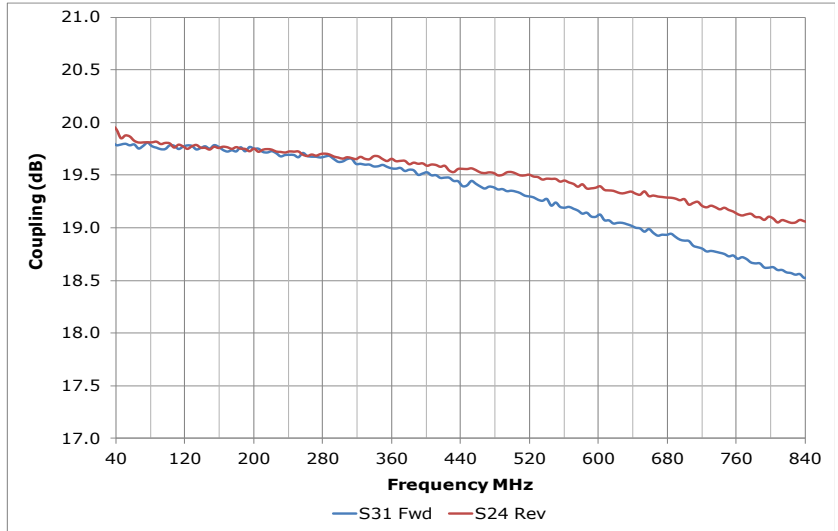
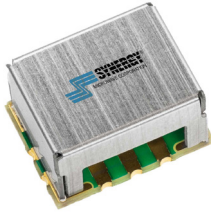
40 - 840 MHz

FEATURES:

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

APPLICATION:

- ▶ Antenna Signal Monitoring



SPECIFICATIONS (Rev. C 05/21/24)

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

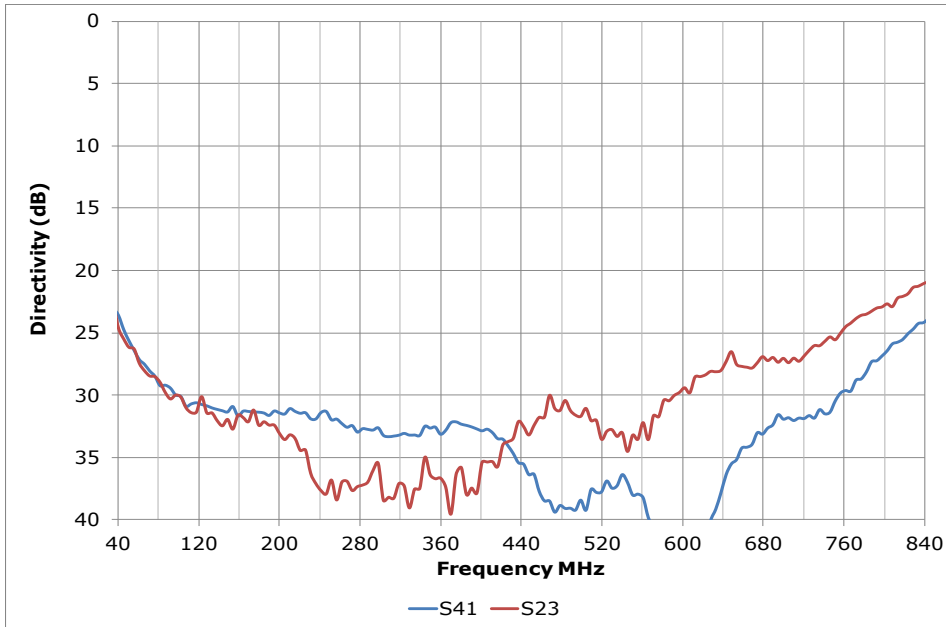
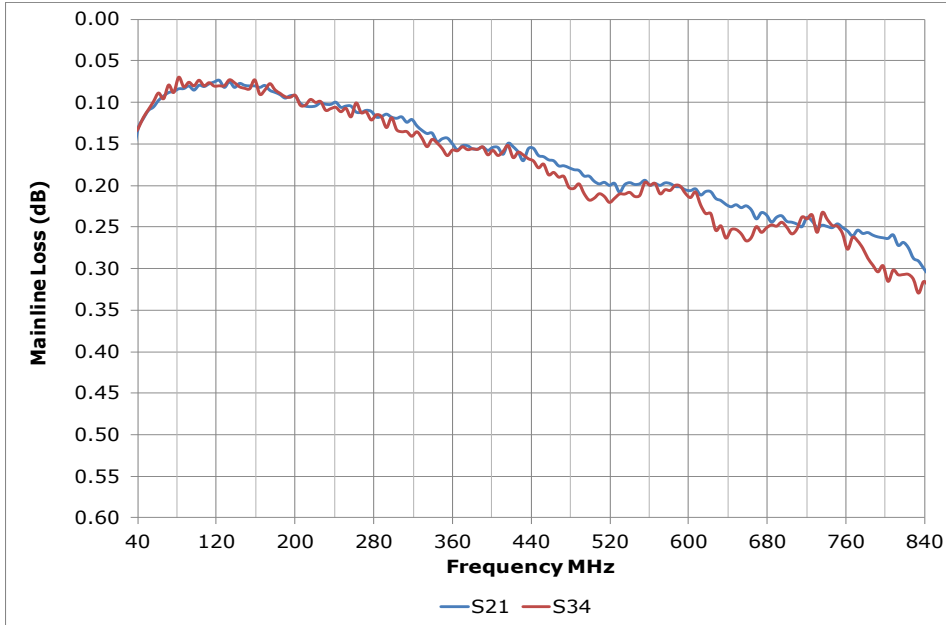
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PERFORMANCE PLOTS

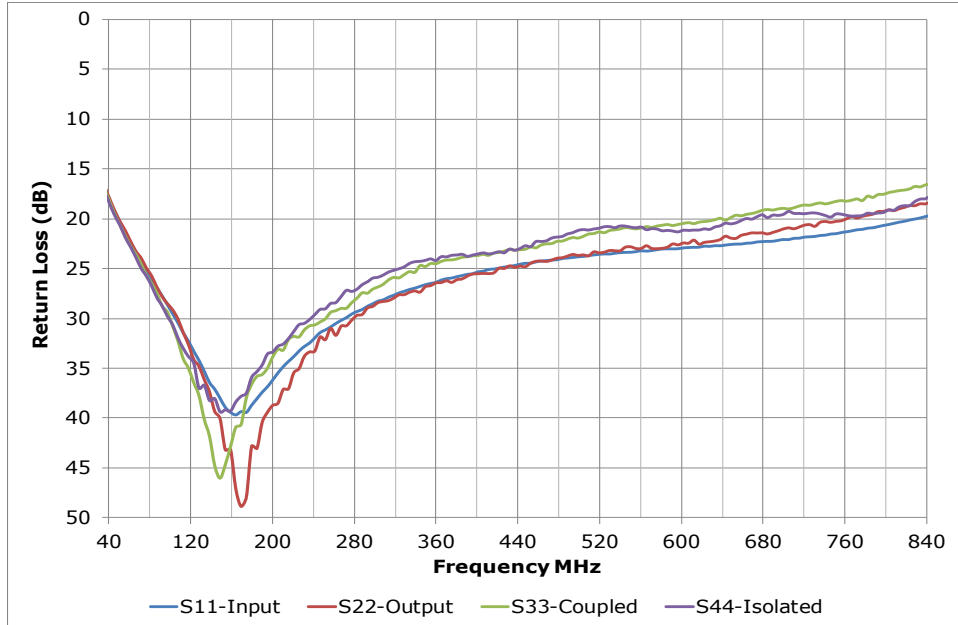


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