

BI-DIRECTIONAL COUPLER

SURFACE MOUNT MODEL: SCCHP-990

WIDE BANDWIDTH

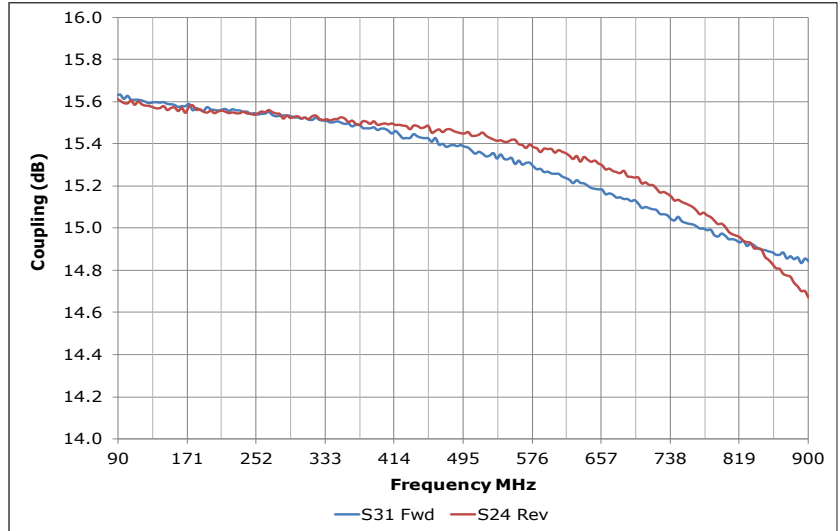
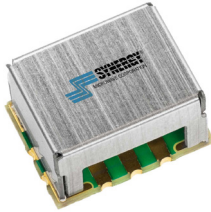
90 - 900 MHz

FEATURES:

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

APPLICATION:

- ▶ Antenna Signal Monitoring



SPECIFICATIONS (Rev. B 09/07/22)

Frequency	90 - 900 MHz		
Coupling	15.2 ±0.5 dB (Nom.)		
Coupling Flatness	±0.6 dB (Max.)		
Mainline Loss ¹	Freq. (MHz)	Typ.	Max.
	90 - 350	0.21	0.32
	350 - 700	0.35	0.46
	700 - 900	0.52	0.64
Directivity (dB) ²	Freq. (MHz)	Typ.	Min.
	90 - 350	30	27
	350 - 700	23	20
	700 - 900	20	17
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	90 - 550	45	
	550 - 750	40	
	550 - 900	30	
Impedance	50 Ohms (Nom.)		
VSWR	1.30:1 (Typ.) / 1.50:1 (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

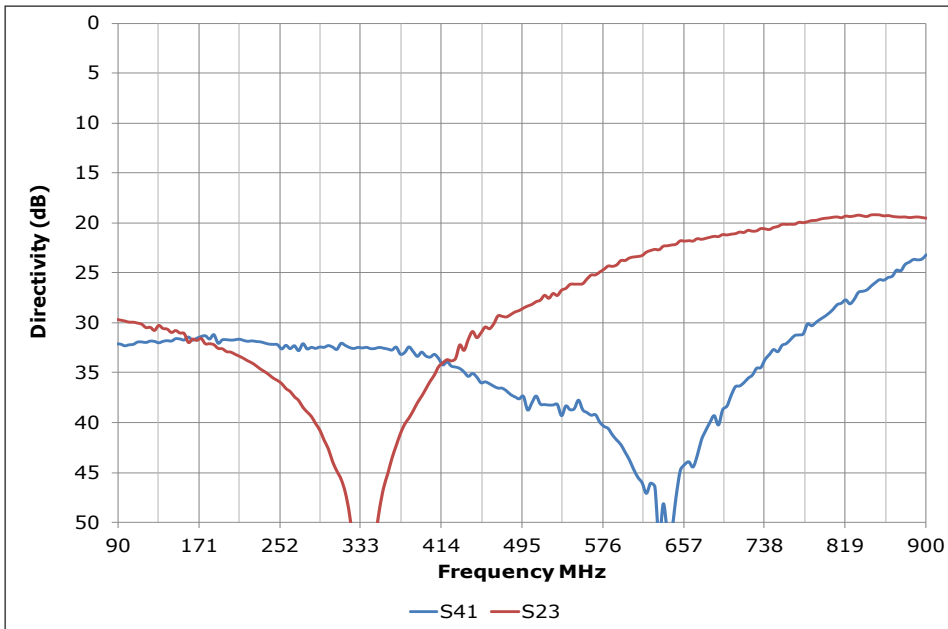
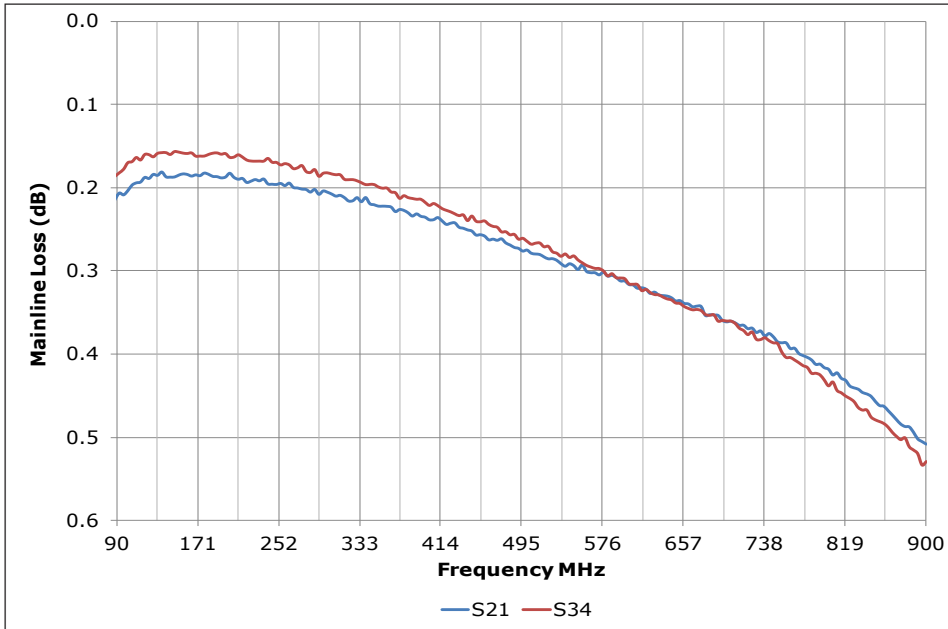
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PERFORMANCE PLOTS

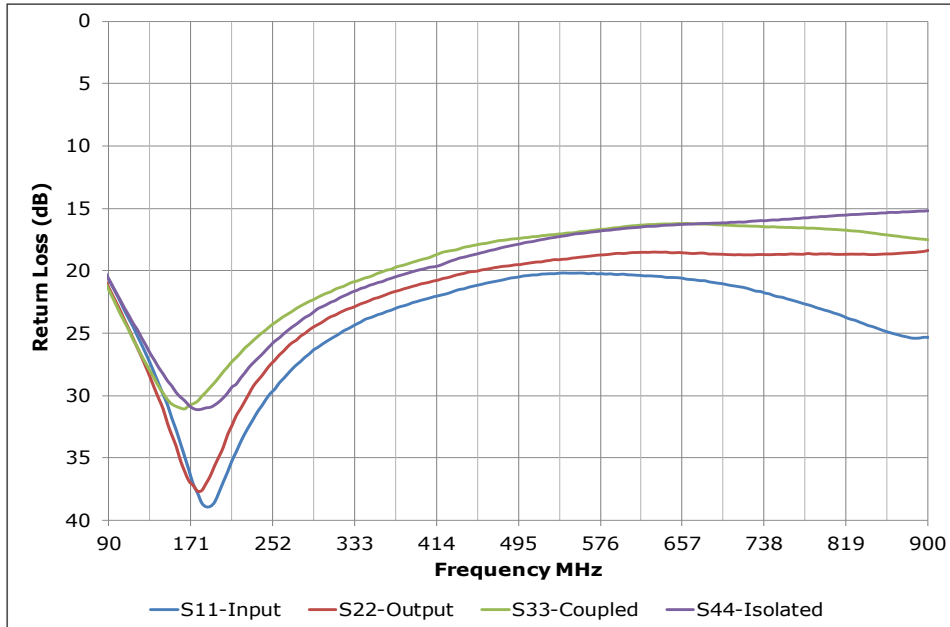


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