

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SDCHP-335

WIDE BANDWIDTH

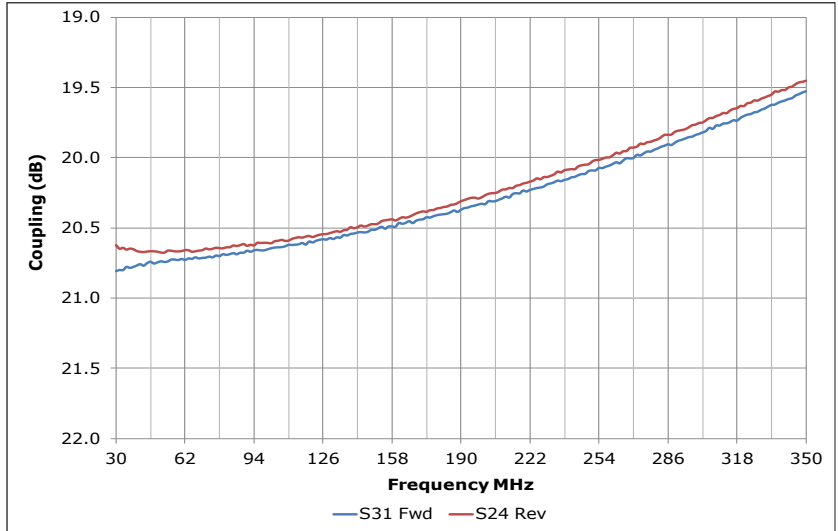
30 - 350 MHz

**FEATURES:**

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

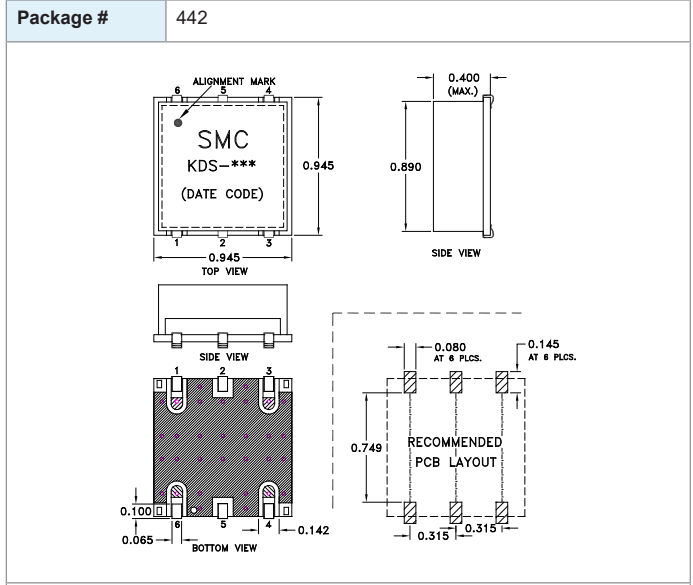
**APPLICATION:**

- ▶ Antenna Signal Monitoring

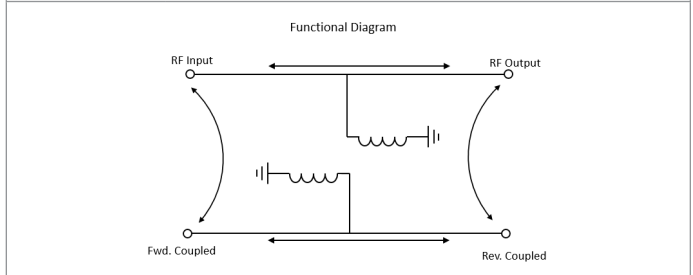


**SPECIFICATIONS (Rev. A 02/24/22)**

Frequency	30 - 350 MHz		
Coupling	20.1 ±0.7 dB (Nom.)		
Coupling Flatness	±0.85 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	30 - 100	0.13	0.17
	100 - 200	0.17	0.23
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	30 - 100	19	17
	100 - 200	27	23
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	30 - 100	100	
	100 - 200	75	
	200 - 350	50	
Impedance	50 Ohms (Nom.)		
VSWR	1.35:1 (Typ.) / 1.50:1 (Max.)		
Operating Temperature Range	-40 to +85 °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.			



PORT CONFIGURATION				
Input	Output	FWD. Coupled	REV. Coupled	Gnd.
6	1	4	3	2,5



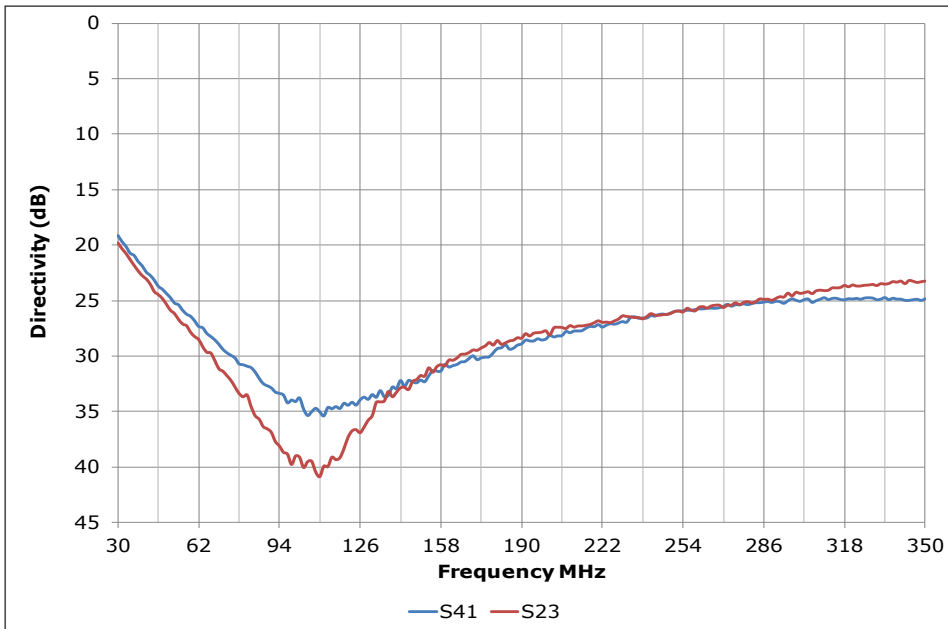
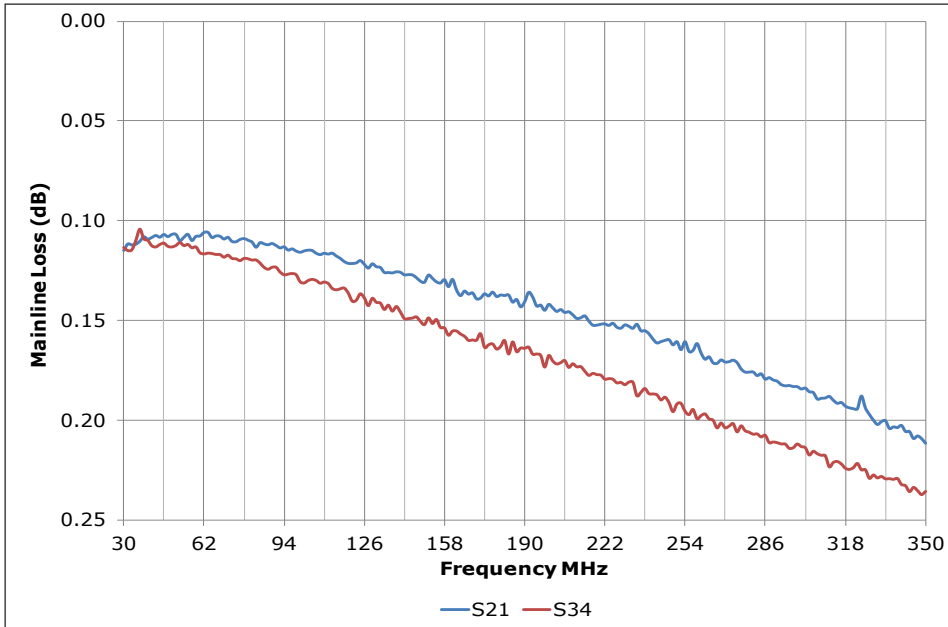
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PERFORMANCE PLOTS

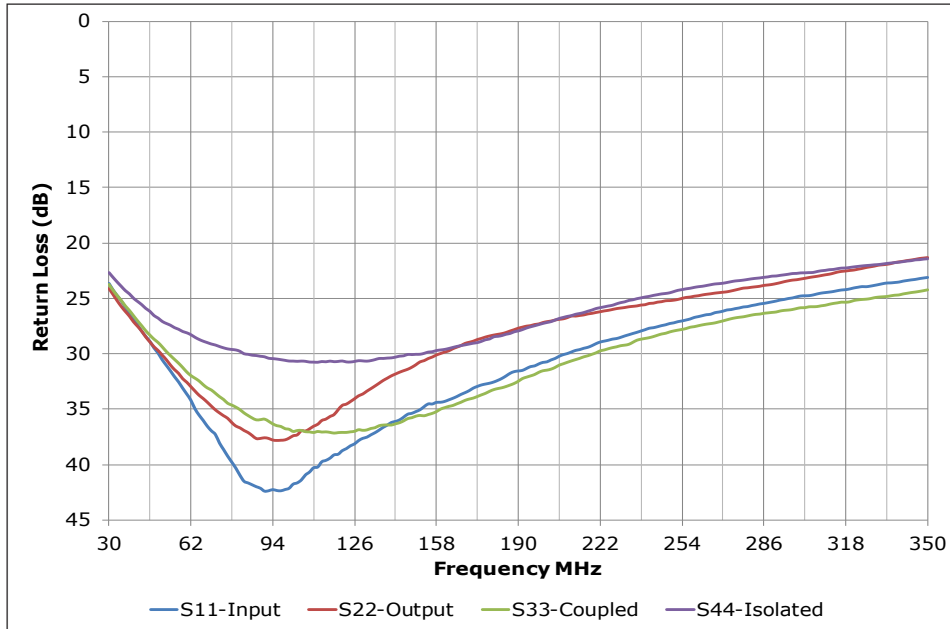


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PERFORMANCE PLOTS