

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SBCHP-2082

**WIDE BANDWIDTH**

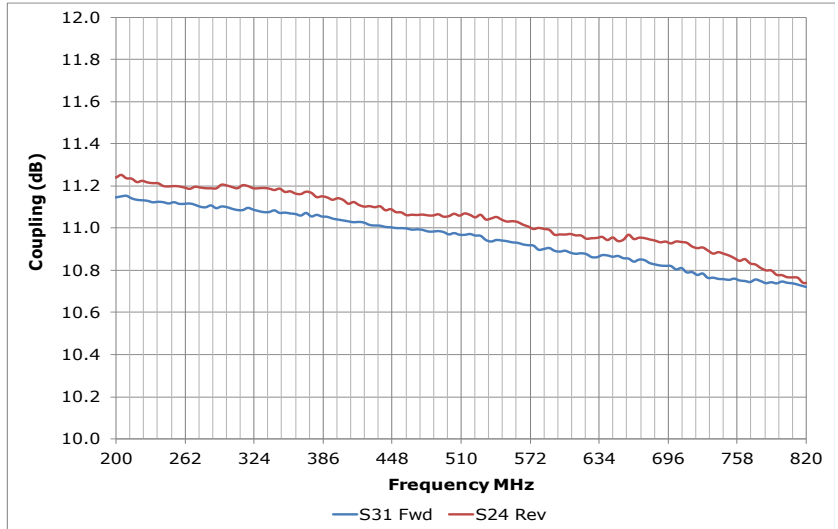
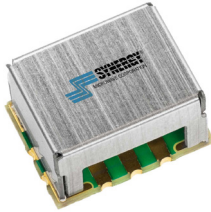
**200 - 820 MHz**

**FEATURES:**

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

**APPLICATION:**

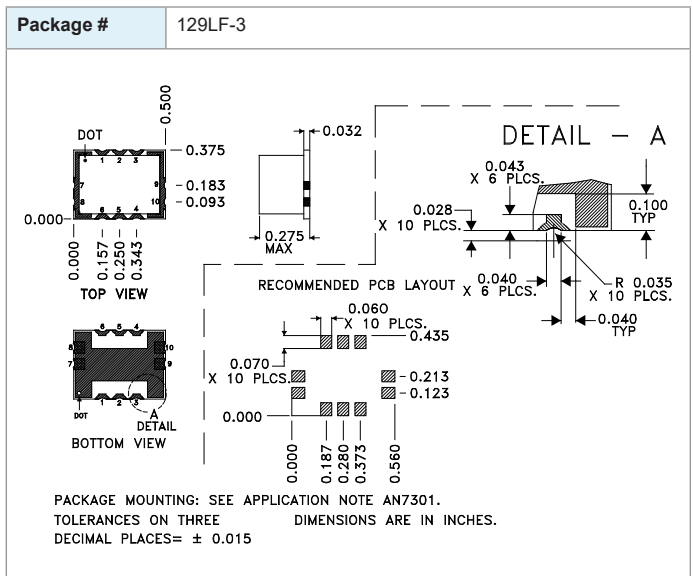
- ▶ Antenna Signal Monitoring



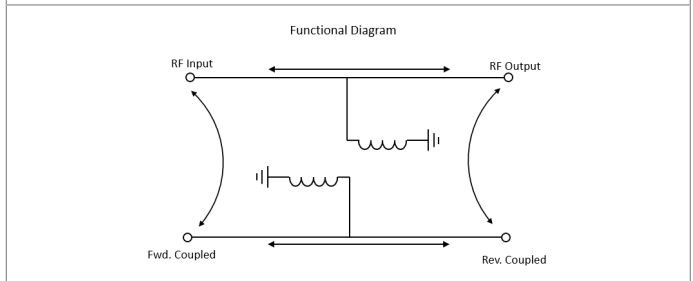
**SPECIFICATIONS (Rev. C 05/21/24)**

Frequency	200 - 820 MHz		
Coupling	11.0 ±0.46 dB (Nom.)		
Coupling Flatness	±0.5 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	200 - 450	0.48	0.70
	450 - 650	0.60	0.85
	650 - 820	0.74	0.90
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	200 - 450	23	20
	450 - 650	24	20
	650 - 820	22	19
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	200 - 600	25	
	600 - 820	20	
Impedance	50 Ohms (Nom.)		
VSWR	1.3:1 (Typ.) / 1.45:1 (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.
1	6	3	4	All Others



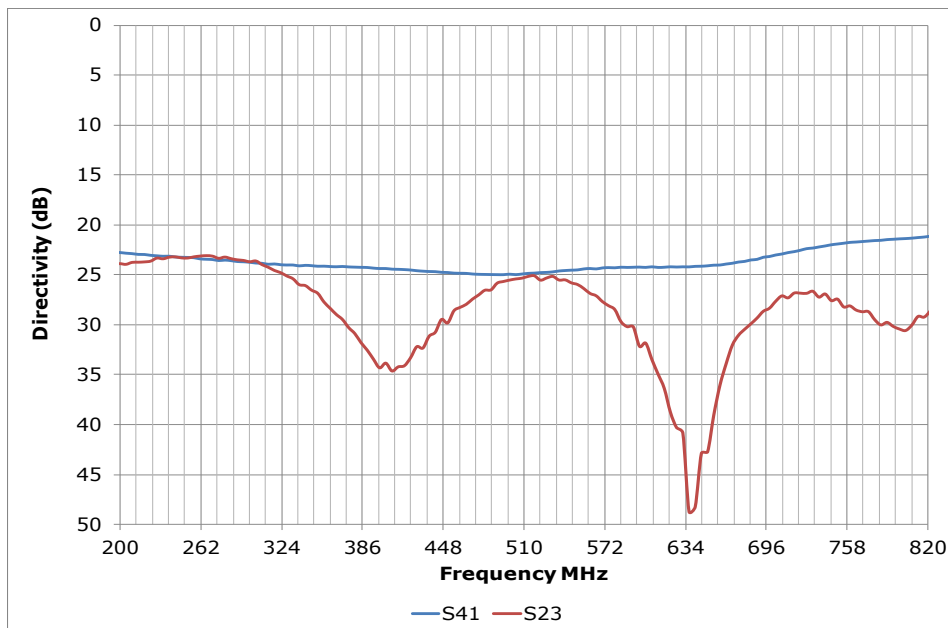
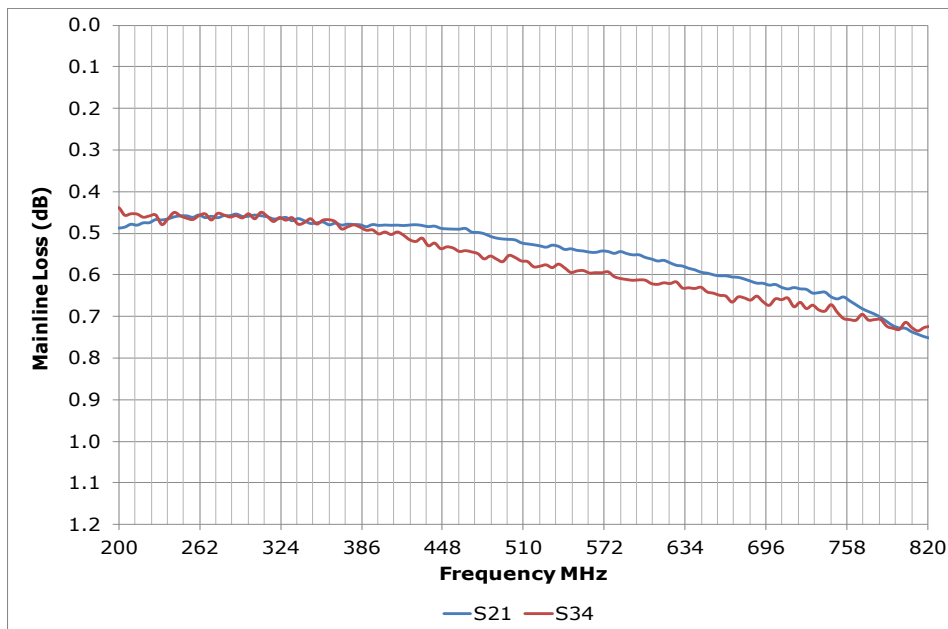
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PERFORMANCE PLOTS

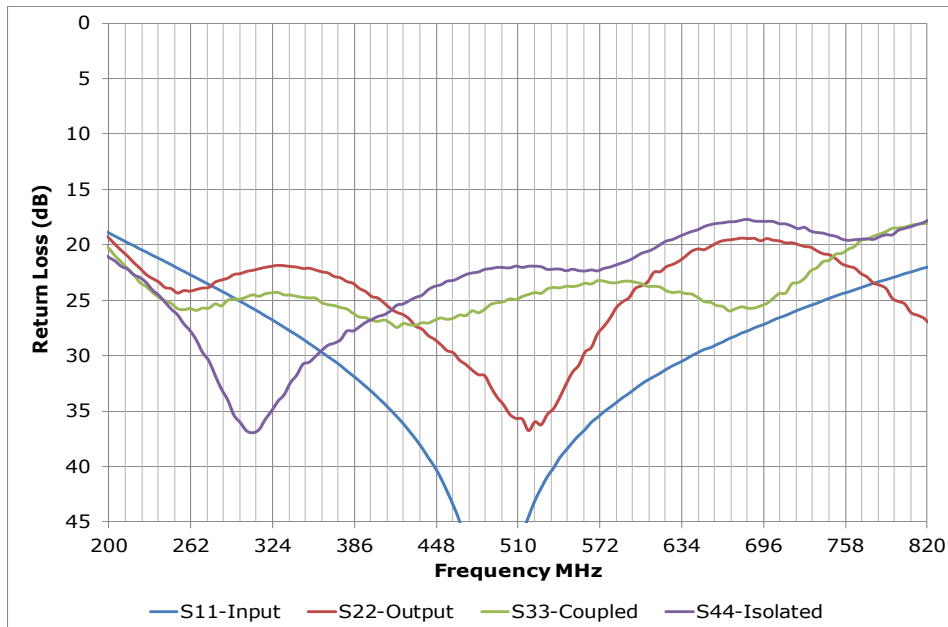


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