

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SBCHP-2080

**WIDE BANDWIDTH**

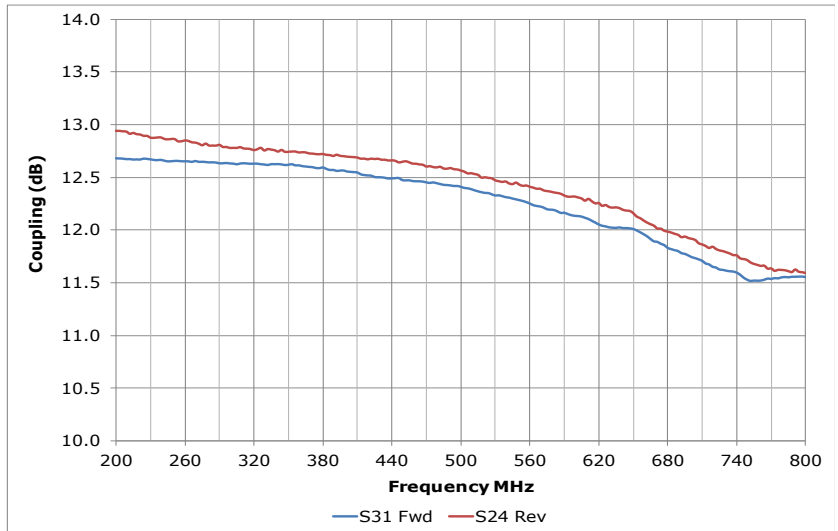
**200 - 800 MHz**

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



**SPECIFICATIONS (Rev. D 06/22/22)**

Frequency	200 - 800 MHz		
Coupling	12.3 ±0.7 dB (Nom.)		
Coupling Flatness	±0.9 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	200 - 400	0.48	0.62
	400 - 600	0.64	0.80
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	200 - 400	18	15
	400 - 600	24	18
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	200 - 400	50	
	400 - 600	50	
	600 - 800	45	
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		
<sup>1</sup> Including Coupling Loss.			
<sup>2</sup> Directivity is the isolation value minus the coupling value.			

**Package #** 255-2

**PORT CONFIGURATION**

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

**Functional Diagram**

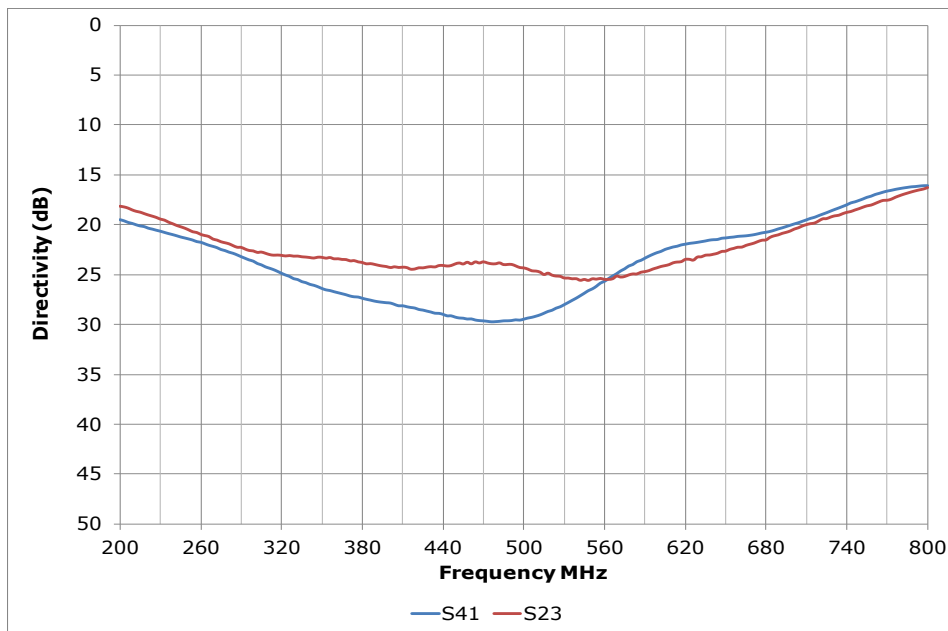
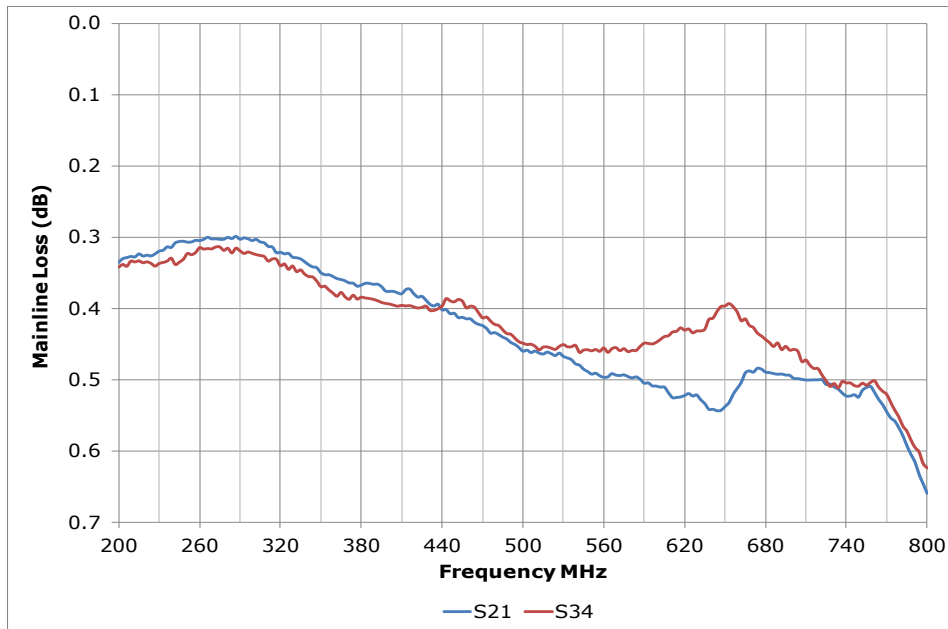
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PERFORMANCE PLOTS

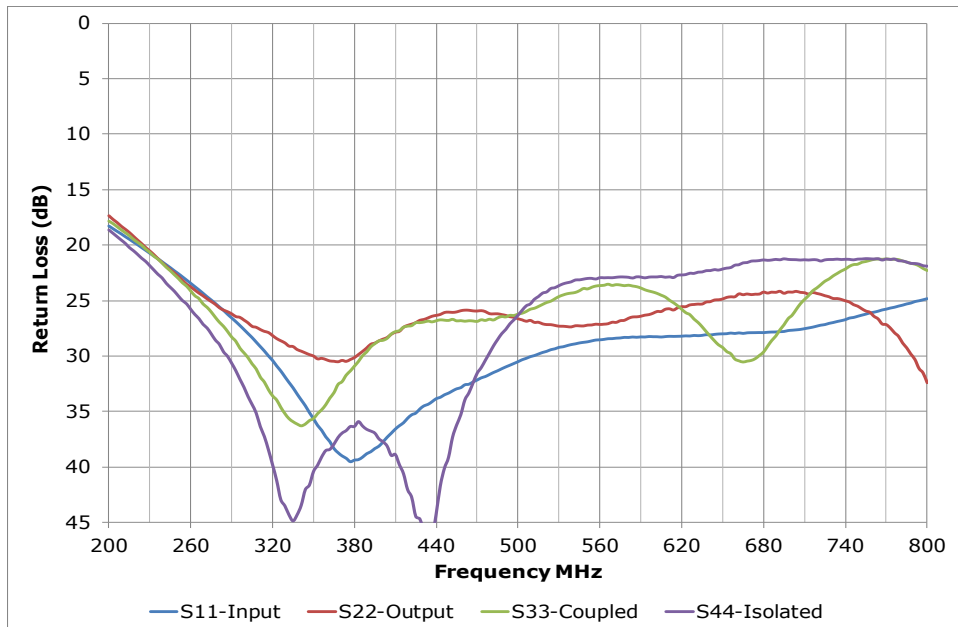


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