

# BI-DIRECTIONAL COUPLER

## CONNECTORIZED MODEL: KCCHP-990

WIDE BANDWIDTH

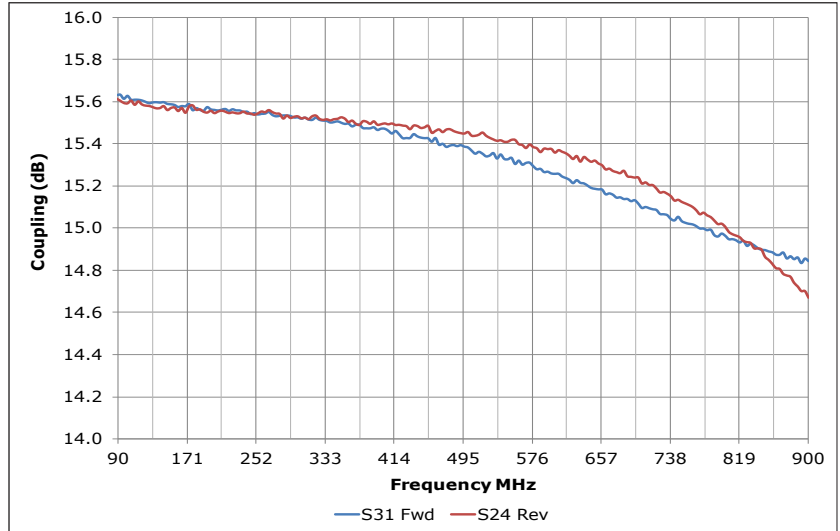
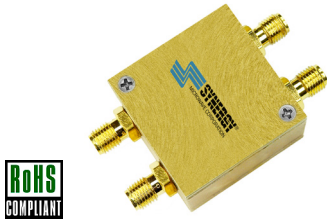
90 - 900 MHz

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



**SPECIFICATIONS (Rev. A 09/27/22)**

Frequency	90 - 900 MHz		
Coupling	15.2 ±0.5 dB (Nom.)		
Coupling Flatness	±0.6 dB (Max.)		
Mainline Loss <sup>1</sup>	Freq. (MHz)	Typ.	Max.
	90 - 350	0.21	0.32
	350 - 700	0.35	0.46
Directivity (dB) <sup>2</sup>	Freq. (MHz)	Typ.	Min.
	90 - 350	30	27
	350 - 700	23	20
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		

<sup>1</sup> Including Coupling Loss.  
<sup>2</sup> Directivity is the isolation value minus the coupling value.

**Package #** 363

All Dimensions in inches (mm)  
 Tolerances: 2 PL.±0.030 inch. (0.762mm)  
 3 PL.±0.015 inch. (0.381mm)

A - 1.250 inch. (31.75 mm)  
 B - 1.250 inch. (31.75 mm)  
 C - 0.750 inch. (19.05 mm)  
 D - 0.325 inch. (8.255 mm)  
 E - 0.925 inch. (23.495 mm)  
 F - 0.375 inch. (9.525 mm)  
 G - 1.000 inch. (25.4 mm)  
 H - 1.000 inch. (25.4 mm)  
 I - ∅0.136 inch. (3.45 mm)

PORT CONFIGURATION			
Input	Output	FWD. Coupled	REV. Coupled
1	4	2	3

**Functional Diagram**

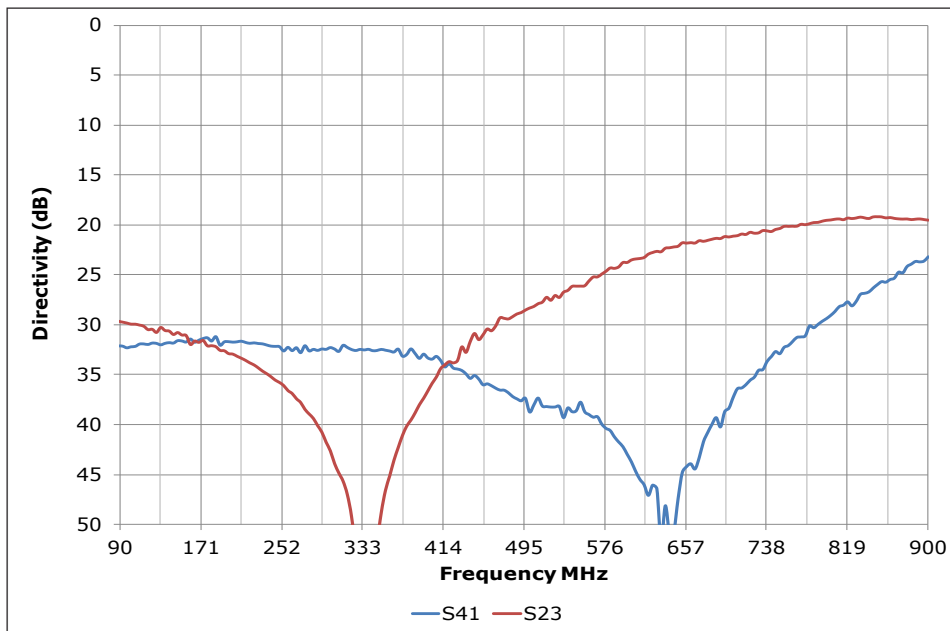
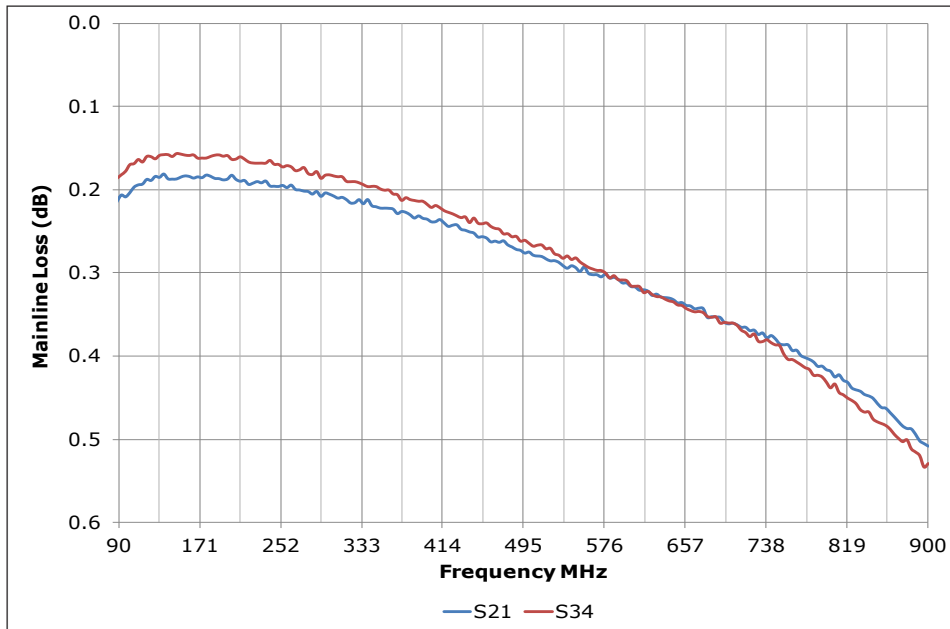
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PERFORMANCE PLOTS

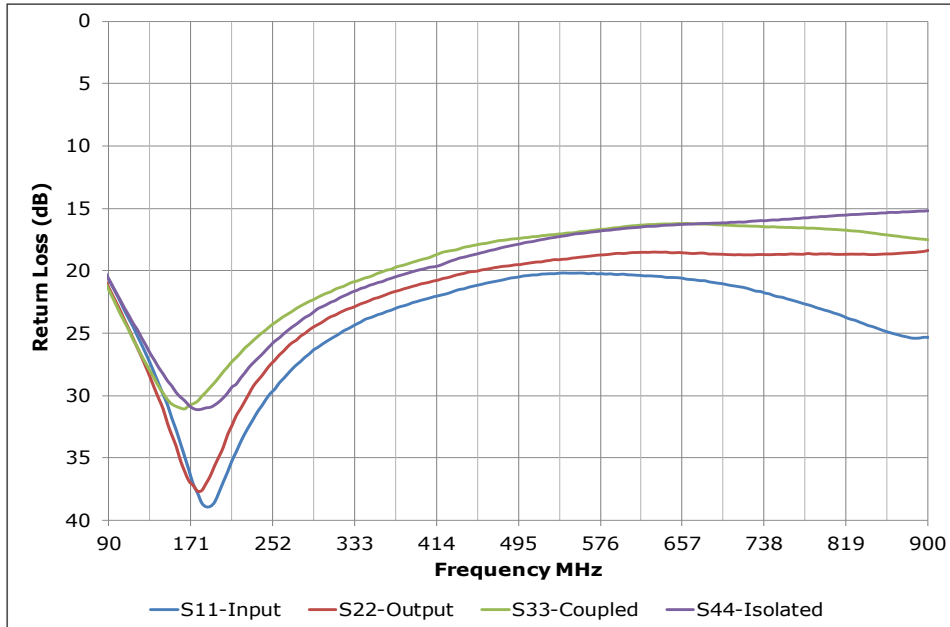


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