

# BI-DIRECTIONAL COUPLER

## CONNECTORIZED MODEL: KDCHP-484

**WIDE BANDWIDTH**

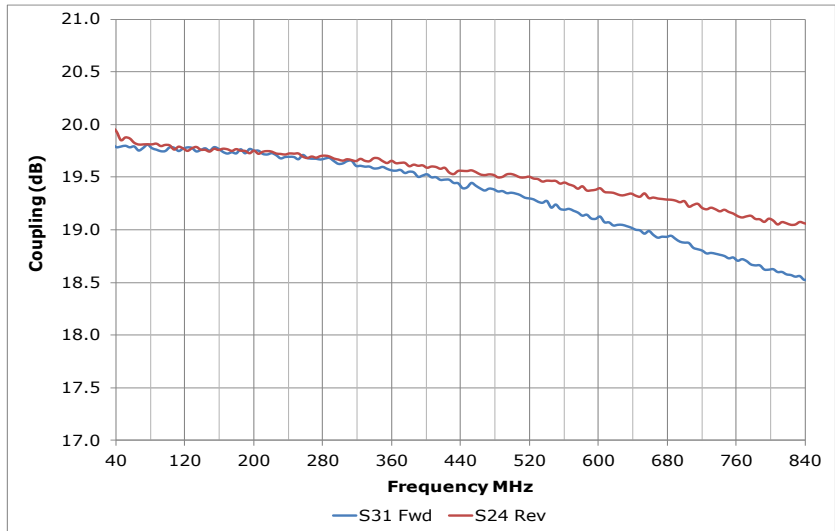
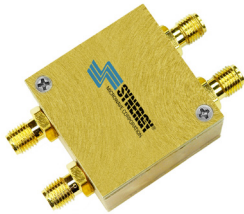
**40 - 840 MHz**

**FEATURES:**

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

**APPLICATION:**

- ▶ Antenna Signal Monitoring



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

<b>Frequency</b>	40 - 840 MHz		
<b>Coupling</b>	19.2 ±0.8 dB (Nom.)		
<b>Coupling Flatness</b>	±0.9 dB (Max.)		
<b>Mainline Loss <sup>1</sup></b>	Freq. (MHz)	Typ.	Max.
	40 - 120	0.13	0.20
	120 - 500	0.21	0.30
<b>Directivity (dB) <sup>2</sup></b>	Freq. (MHz)	Typ.	Min.
	40 - 120	24	20
	120 - 500	30	23
<b>Input Power Rating</b>	Freq. (MHz)	Watts (Avg.)	
	40 - 120	45	
	120 - 500	30	
500 - 840	15		
<b>Impedance</b>	50 Ohms (Nom.)		
<b>VSWR</b>	1.32:1 (Typ.) / 1.40:1 (Max.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		
<b>Storage Temperature Range</b>	-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)

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

Functional Diagram

**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)

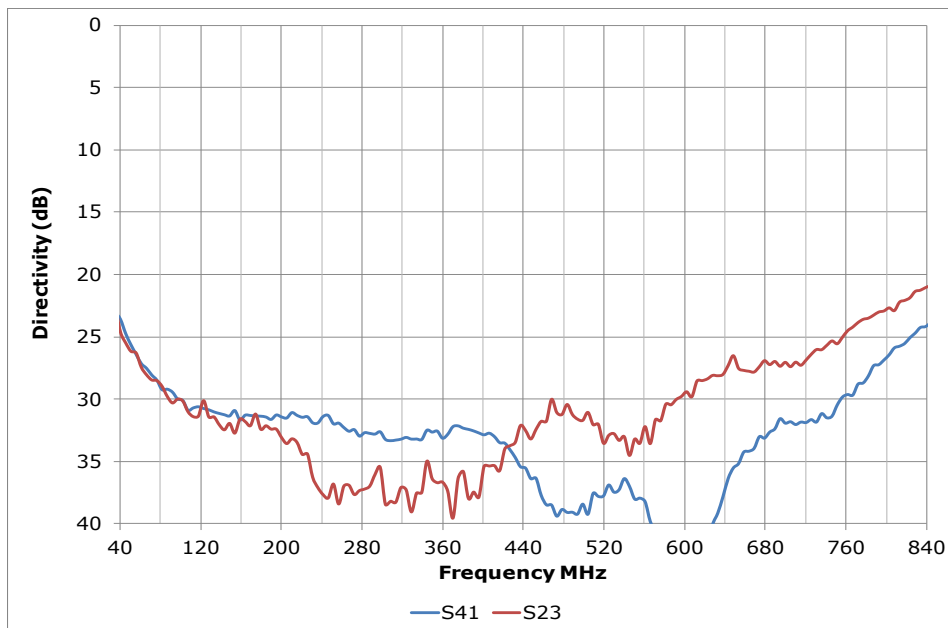
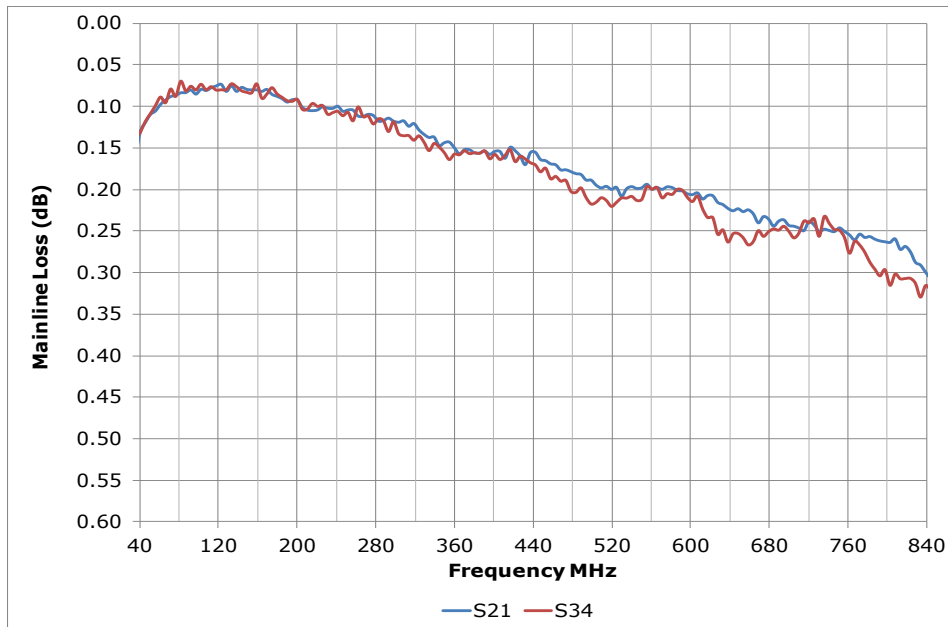
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PERFORMANCE PLOTS

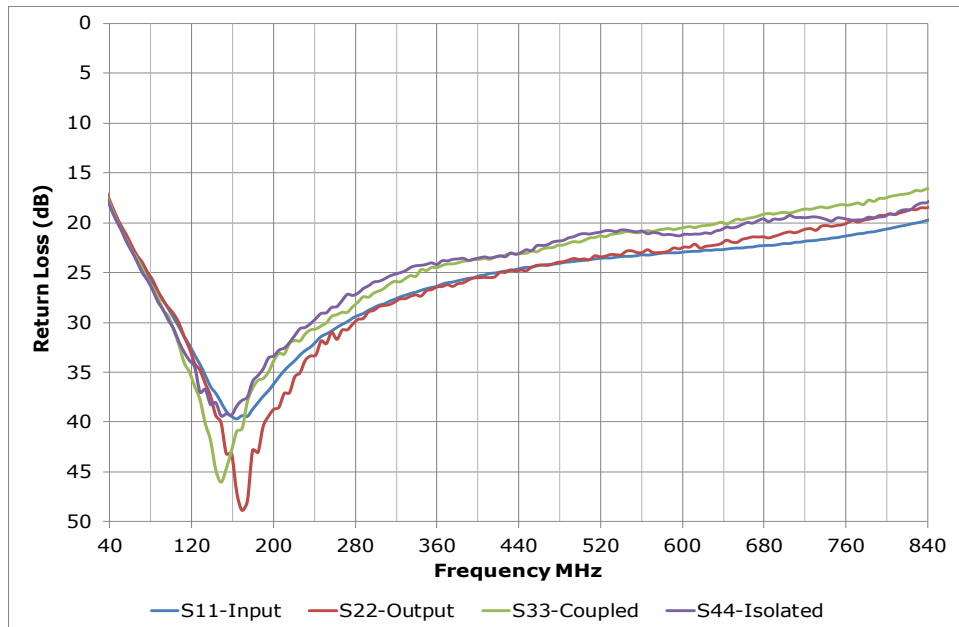


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