

BI-DIRECTIONAL COUPLER

CONNECTORIZED MODEL: KDCHP-484

WIDE BANDWIDTH

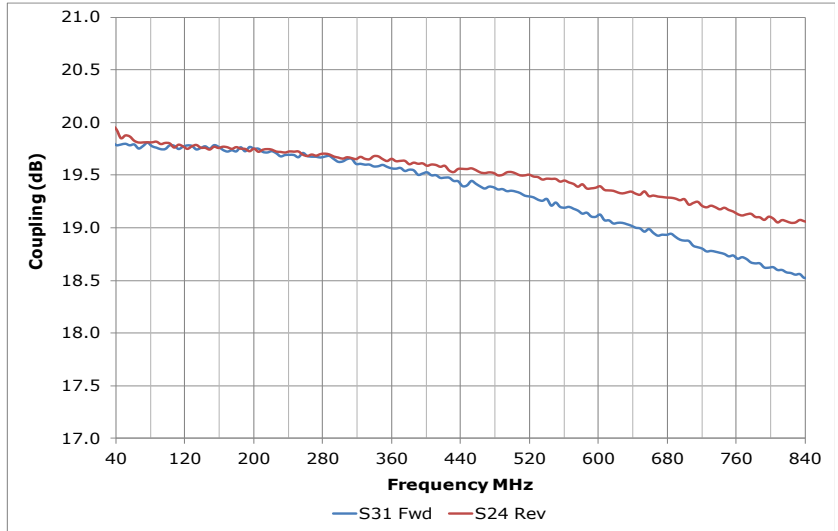
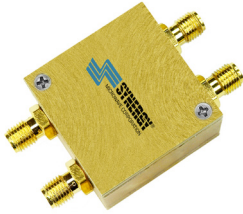
40 - 840 MHz

FEATURES:

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

APPLICATION:

- ▶ Antenna Signal Monitoring



SPECIFICATIONS

Frequency	40 - 840 MHz		
Coupling	19.2 ±0.8 dB (Nom.)		
Coupling Flatness	±0.9 dB (Max.)		
Mainline Loss ¹	Freq. (MHz)	Typ.	Max.
	40 - 120	0.13	0.20
	120 - 500	0.21	0.30
Directivity (dB) ²	Freq. (MHz)	Typ.	Min.
	40 - 120	24	20
	120 - 500	30	23
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	40 - 120	45	
	120 - 500	30	
500 - 840	15		
Impedance	50 Ohms (Nom.)		
VSWR	1.32:1 (Typ.) / 1.40:1 (Max.)		
Operating Temperature Range	-40 to +85 °C		
Storage Temperature Range	-55 to +100 °C		
¹ Including Coupling Loss.			
² 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	2	4	3

Functional Diagram

Dimensions List:

- 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)

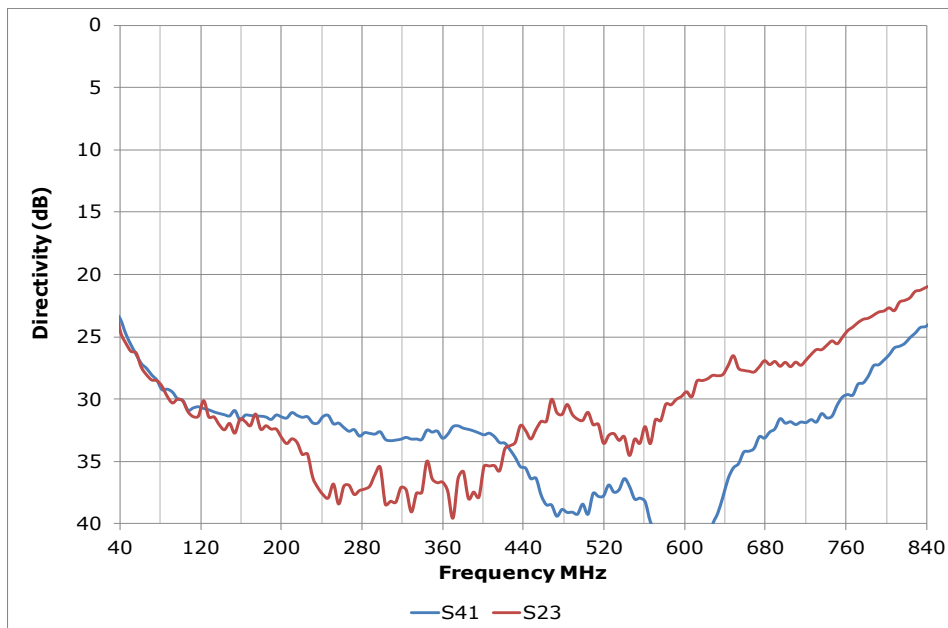
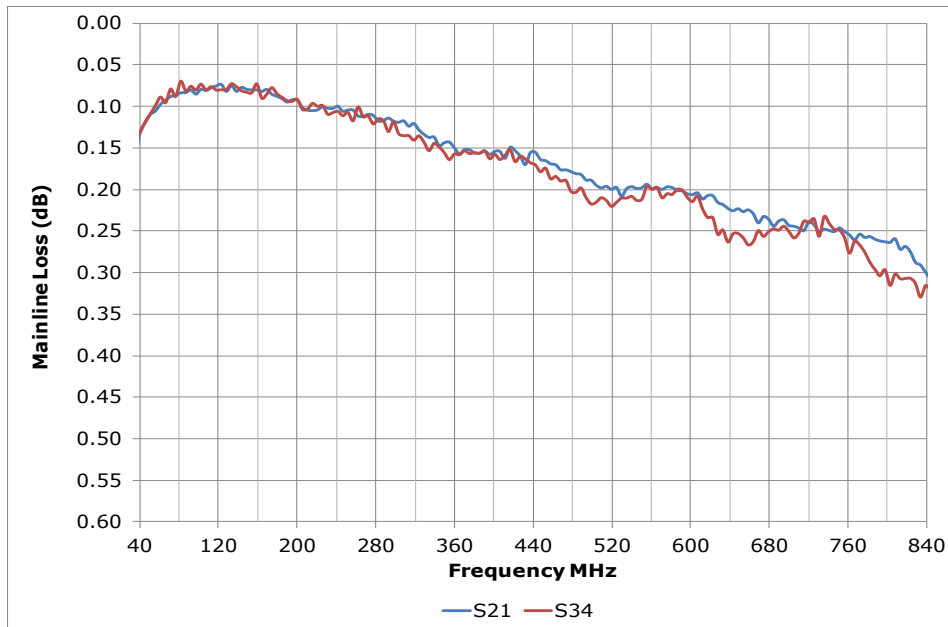
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PERFORMANCE PLOTS

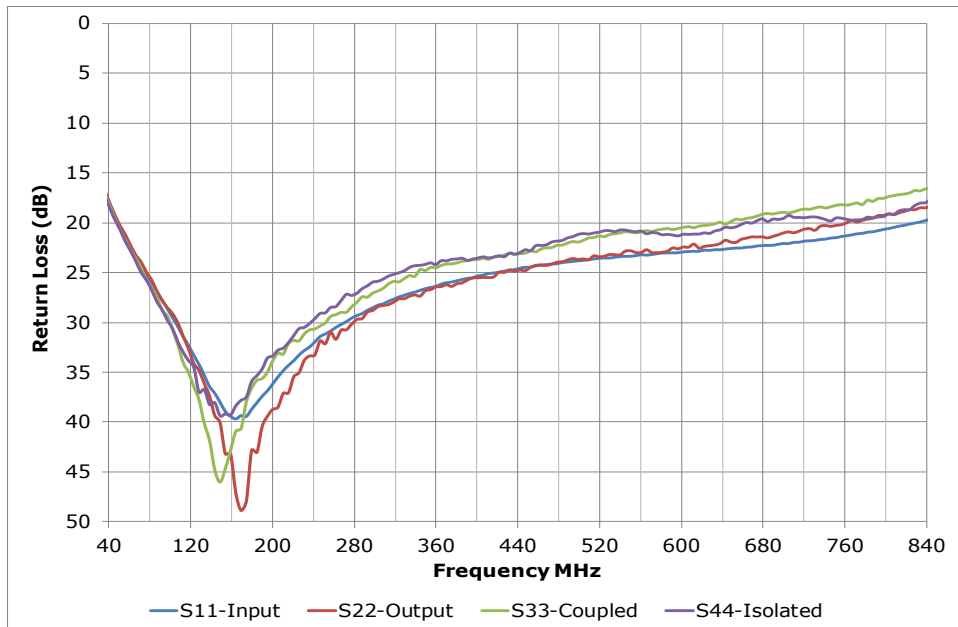


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