

BI-DIRECTIONAL COUPLER

CONNECTORIZED MODEL: KDCHP-255

WIDE BANDWIDTH

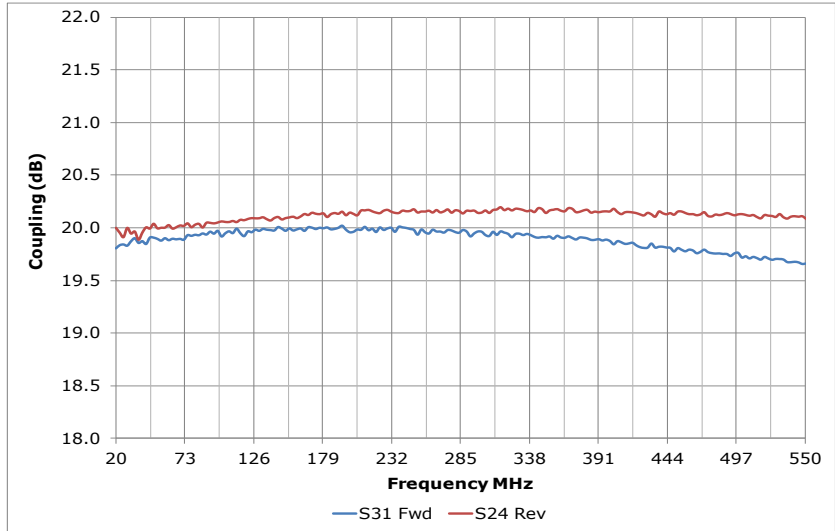
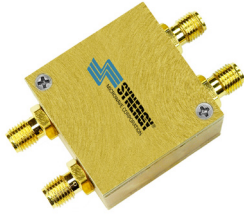
20 - 550 MHz

FEATURES:

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

APPLICATION:

- ▶ Antenna Signal Monitoring



SPECIFICATIONS (Rev. A 09/27/22)

Frequency	20 - 550 MHz		
Coupling	20 ±0.6 dB (Nom.)		
Coupling Flatness	±0.4 dB (Max.)		
Mainline Loss ¹	Freq. (MHz)	Typ.	Max.
	20 - 200	0.13	0.25
	200 - 400	0.17	0.28
	400 - 550	0.25	0.35
Directivity (dB) ²	Freq. (MHz)	Typ.	Min.
	20 - 200	25	20
	200 - 400	25	20
	400 - 550	23	20
Input Power Rating	Freq. (MHz)	Watts (Avg.)	
	20 - 350	30	
	350 - 550	25	
Impedance	50 Ohms (Nom.)		
VSWR	1.15:1 (Typ.) / 1.30:1 (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)

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

PORT CONFIGURATION

Functional Diagram

Dimensions:
 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)

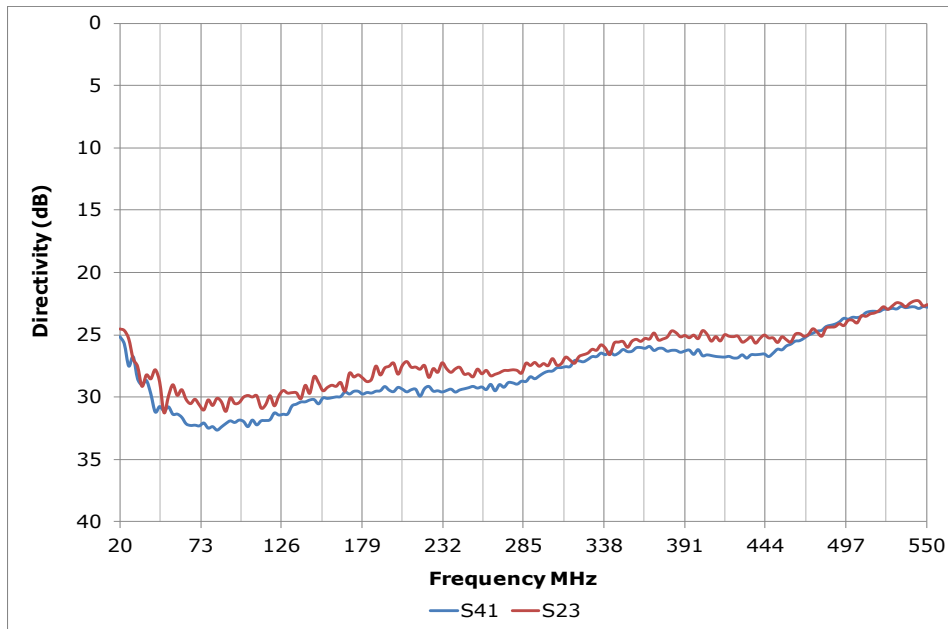
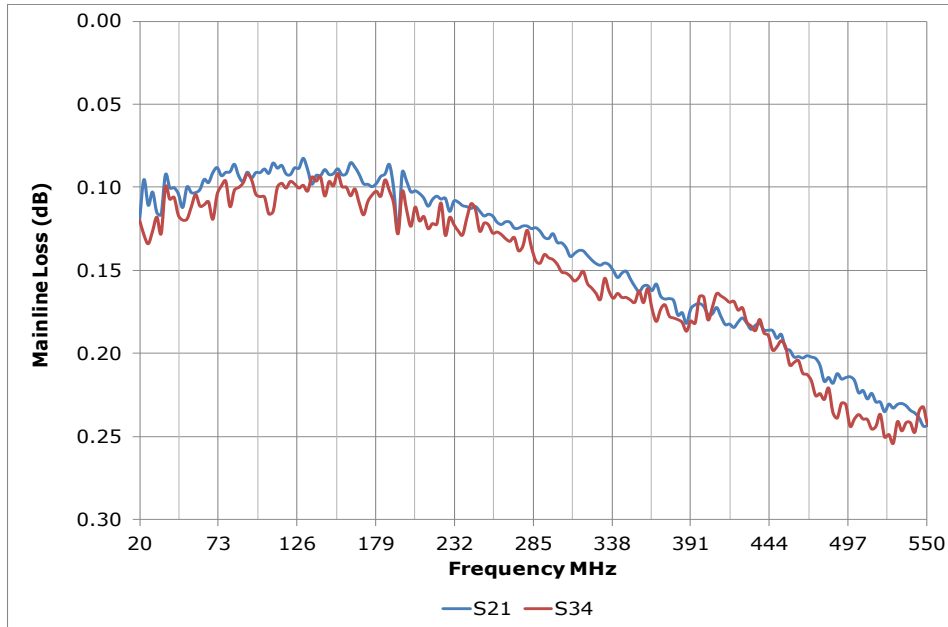
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PERFORMANCE PLOTS

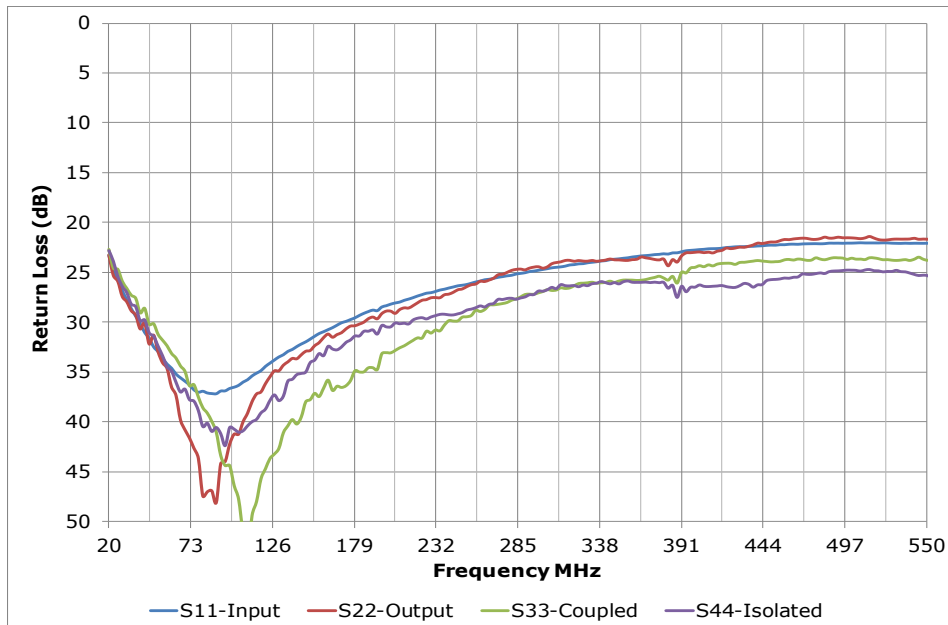


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