

# DIRECTIONAL COUPLER

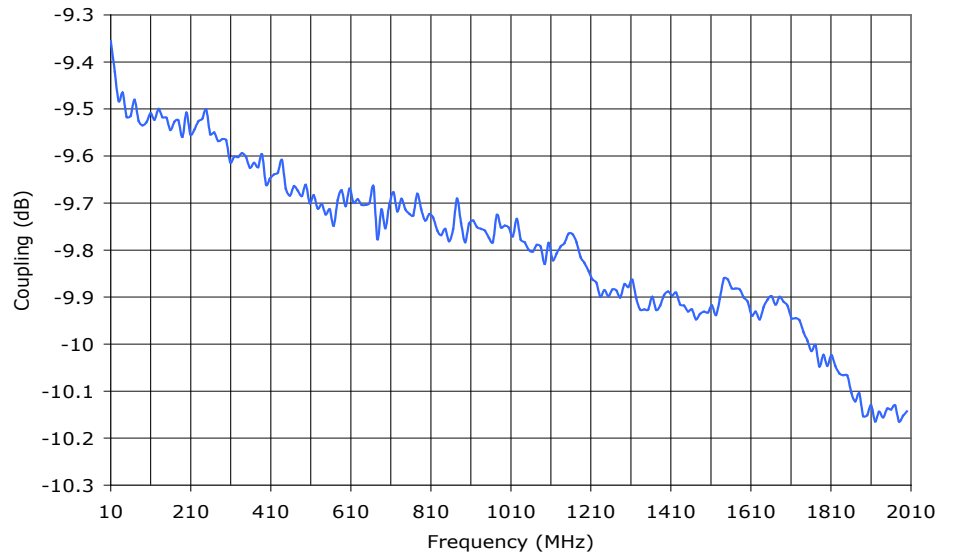
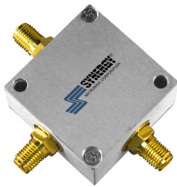
## CONNECTORIZED MODEL: KBK-708S

**WIDE BANDWIDTH**

**10 - 2000 MHz**

**FEATURES:**

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



**SPECIFICATIONS (Rev. B 01/25/19)**

<b>Frequency</b>	10 - 2000 MHz		
<b>Coupling</b>	9.8 dB $\pm$ 0.8 dB (Nom.)		
<b>Coupling Flatness</b>	$\pm$ 1.0 dB (Max.)		
<b>Mainline Loss</b>	Freq. (MHz)	dB (Typ.)	dB (Max.)
	10-100	1.6	2.2
	100-1000	1.7	2.3
	1000-2000	2.4	3.0
<b>Directivity</b>	Freq. (MHz)	dB (Typ.)	dB (Min.)
	10-100	18	13
	100-1000	22	15
	1000-2000	17	13
<b>Output Impedance</b>	50 Ohms (Nom.)		
<b>VSWR:</b>	1.3:1 (Typ.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		

**Package #** 110LF

All Dimensions in inches (mm)

Tolerances: 2 PL.  $\pm$ 0.030 inch. (0.762mm)  
3 PL.  $\pm$ 0.015 inch. (0.381mm)

**PORT CONFIGURATION**

Input	Output	Coupled
3	1	2

Dimensions list:

- A - 1.250 inch. (31.75 mm)
- B - 1.250 inch. (31.75 mm)
- C - 0.750 inch. (19.05 mm)
- D - 0.375 inch. (9.525 mm)
- E - 1.000 inch. (25.4 mm)
- F - 1.000 inch. (25.4 mm)
- G -  $\varnothing$ 0.136 inch. (3.45 mm)
- H - 0.625 inch. (15.875 mm)
- I - 0.625 inch. (15.875 mm)

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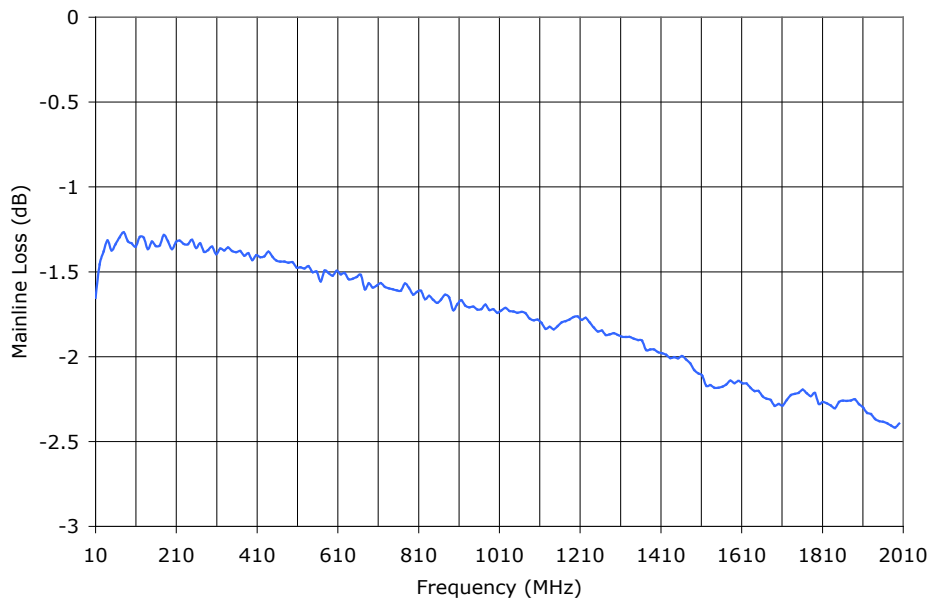
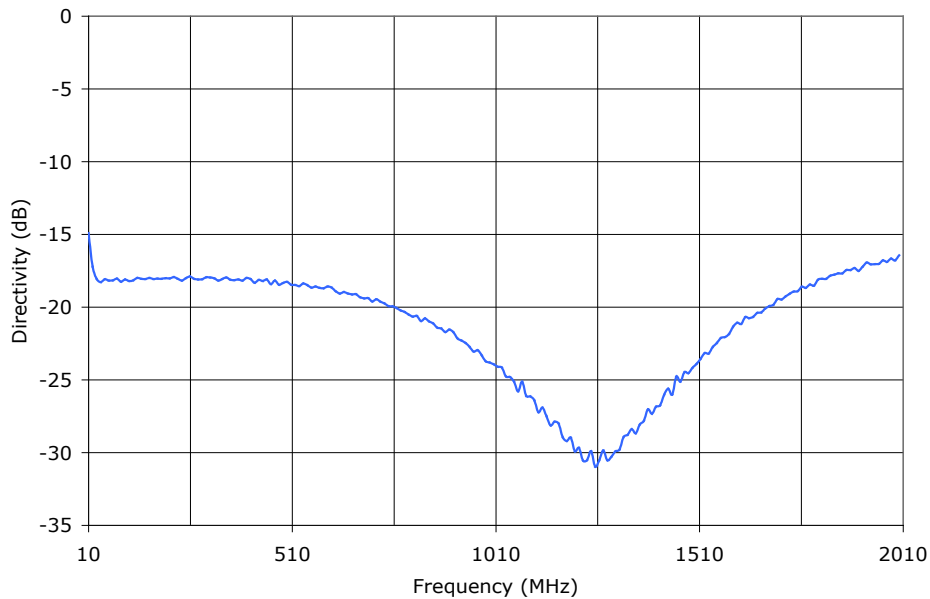
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Data @ 25°

PERFORMANCE PLOTS



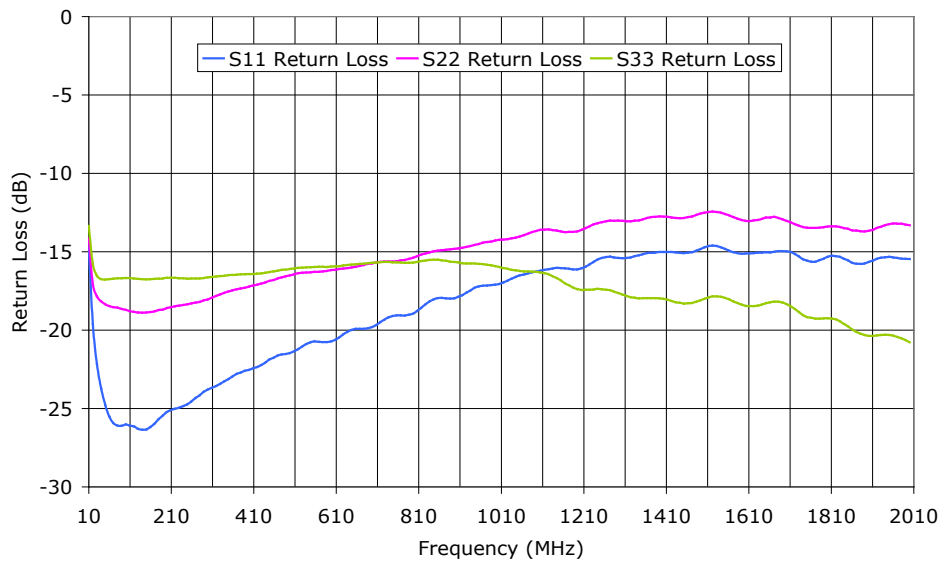
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