

# BI-DIRECTIONAL COUPLER

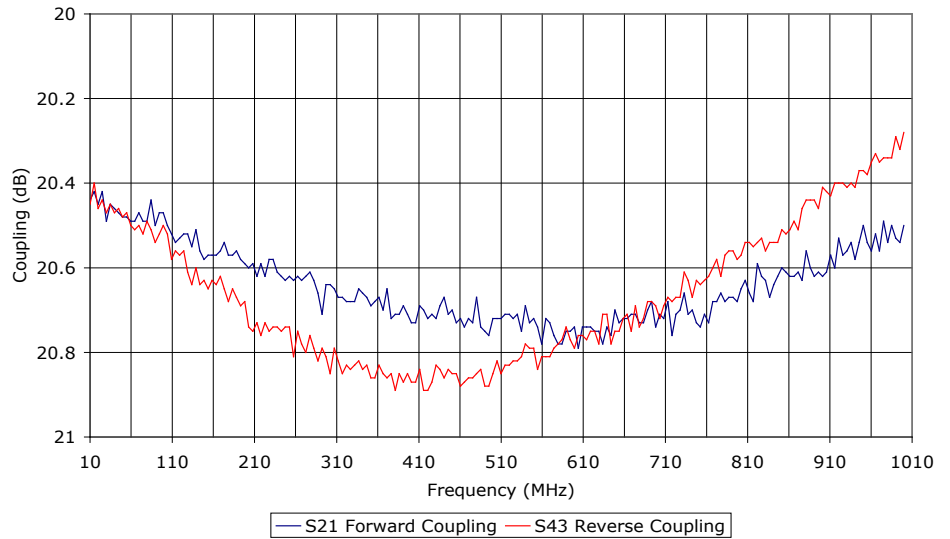
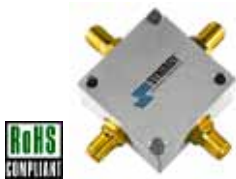
## CONNECTORIZED MODEL: KDK-744S

**WIDE BANDWIDTH**

**10 - 1000 MHz**

**FEATURES:**

- ▶ High Directivity
- ▶ Low Insertion Loss



**SPECIFICATIONS (Rev. B 01/13/09)**

<b>Frequency</b>	10 - 1000 MHz												
<b>Coupling</b>	20 ±1 dB (Nom.)												
<b>Coupling Flatness)</b>	±1 dB												
<b>Mainline Loss</b>	<table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>Typ. (dB)</th> <th>Max. (dB)</th> </tr> </thead> <tbody> <tr> <td>10 - 100</td> <td>0.4</td> <td>0.5</td> </tr> <tr> <td>100 - 500</td> <td>0.5</td> <td>1.0</td> </tr> <tr> <td>500 - 1000</td> <td>1.0</td> <td>1.5</td> </tr> </tbody> </table>	Freq. (MHz)	Typ. (dB)	Max. (dB)	10 - 100	0.4	0.5	100 - 500	0.5	1.0	500 - 1000	1.0	1.5
	Freq. (MHz)	Typ. (dB)	Max. (dB)										
	10 - 100	0.4	0.5										
100 - 500	0.5	1.0											
500 - 1000	1.0	1.5											
<b>Directivity</b>	<table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>Typ. (dB)</th> <th>Min. (dB)</th> </tr> </thead> <tbody> <tr> <td>10 - 100</td> <td>30</td> <td>23</td> </tr> <tr> <td>100 - 500</td> <td>25</td> <td>18</td> </tr> <tr> <td>500 - 1000</td> <td>20</td> <td>15</td> </tr> </tbody> </table>	Freq. (MHz)	Typ. (dB)	Min. (dB)	10 - 100	30	23	100 - 500	25	18	500 - 1000	20	15
	Freq. (MHz)	Typ. (dB)	Min. (dB)										
	10 - 100	30	23										
100 - 500	25	18											
500 - 1000	20	15											
<b>Input Power</b>	1 Watt (Max.)												
<b>Output Impedance</b>	50 Ohms (Nom.)												
<b>VSWR:</b>	1.3:1 (Typ.)												
<b>Operating Temperature Range</b>	-55 to +100 °C												

**Package #** 113LF

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

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 - ∅0.136 inch. ( 3.45 mm)  
 H - 0.625 inch. ( 15.875 mm)  
 I - 0.625 inch. ( 15.875 mm)

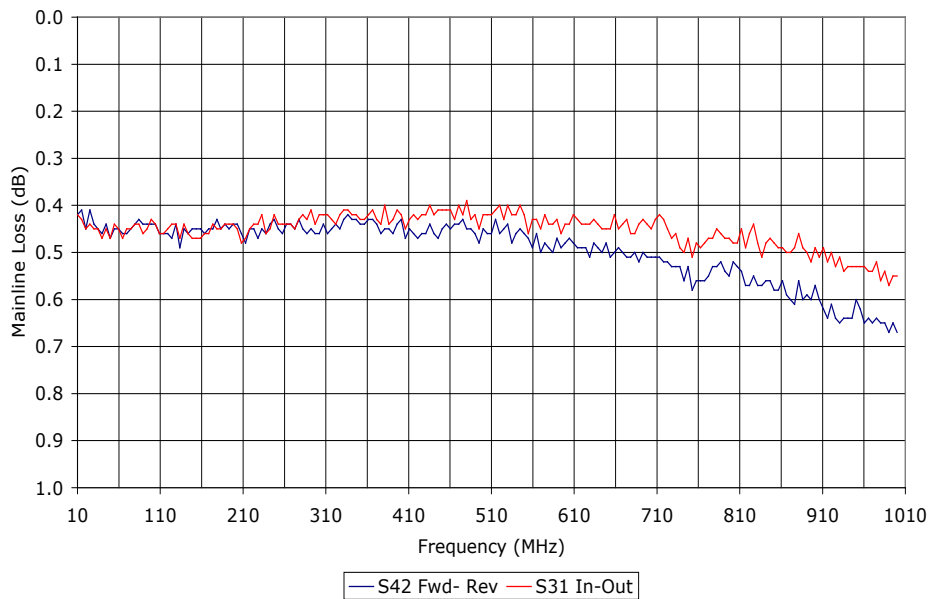
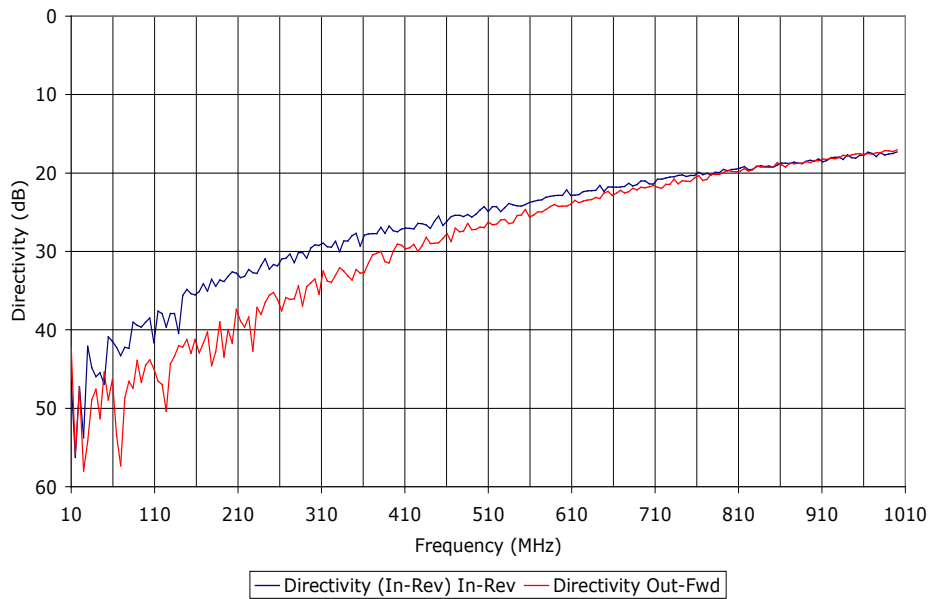
# BI-DIRECTIONAL COUPLER

## CONNECTORIZED MODEL: KDK-744S

WIDE BANDWIDTH

10 - 1000 MHz

PERFORMANCE PLOTS



# BI-DIRECTIONAL COUPLER

## CONNECTORIZED MODEL: KDK-744S

WIDE BANDWIDTH

10 - 1000 MHz

PERFORMANCE PLOTS

