

# 6-WAY POWER DIVIDER

## CONNECTORIZED MODEL: DFK-705S

**WIDE BANDWIDTH**

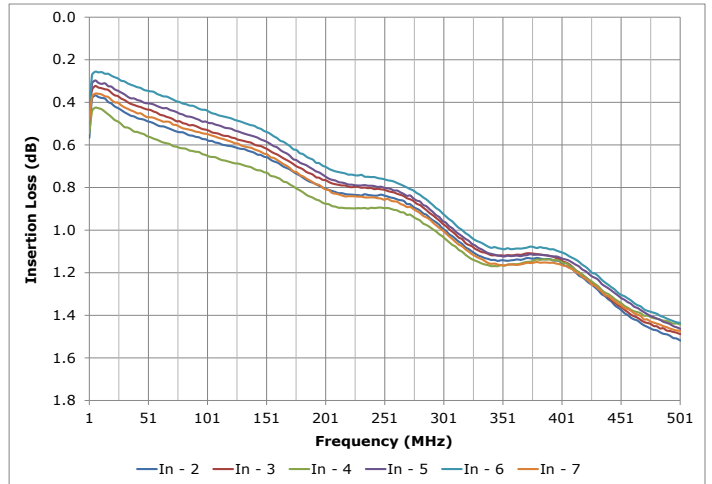
**1 - 500 MHz**

**FEATURES:**

- ▶ Excellent Performance
- ▶ Wide Bandwidth
- ▶ Small Size
- ▶ Moderate Power
- ▶ Lead Free RoHS Compliant

**APPLICATIONS:**

- ▶ Signal Splitting & Low Power Combining



**SPECIFICATIONS (Rev. B 11/06/23)**

<b>Frequency</b>	1 - 500 MHz		
<b>Insertion Loss (dB) *</b>	Freq. (MHz)	Typ.	Max.
	1 - 10	0.3	0.6
	10 - 250	0.8	1.2
	250 - 500	1.5	1.8
<b>Isolation (dB)</b>	Freq. (MHz)	Typ.	Min.
	1 - 10	30	25
	10 - 250	23	20
	250 - 500	23	15
<b>Phase Unbalance</b>	Freq. (MHz)	Typ.	Max.
	1 - 10	1.0°	3.0°
	10 - 250	2.5°	4.0°
	250 - 500	4.0°	8.0°
<b>Amplitude Unbalance (dB)</b>	Freq. (MHz)	Typ.	Max.
	1 - 10	0.15	0.4
	10 - 250	0.20	0.4
	250 - 500	0.1	0.5
<b>Input Power **</b>	1 Watt (Max.)		
<b>VSWR</b>	1.3:1 (Typ.)		
<b>Impedance</b>	50 Ohms (Nom.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		

\* Above 7.78 dB theoretical split loss.  
 \*\* Handling power applies to splitter mode and assumes ideal 50 Ohms impedance matching on all ports.

**Package #** 142

Connector Type: SMA Female

PORT CONFIGURATION	
Input	Output
1	2,3,4,5,6,7

# 6-WAY POWER DIVIDER

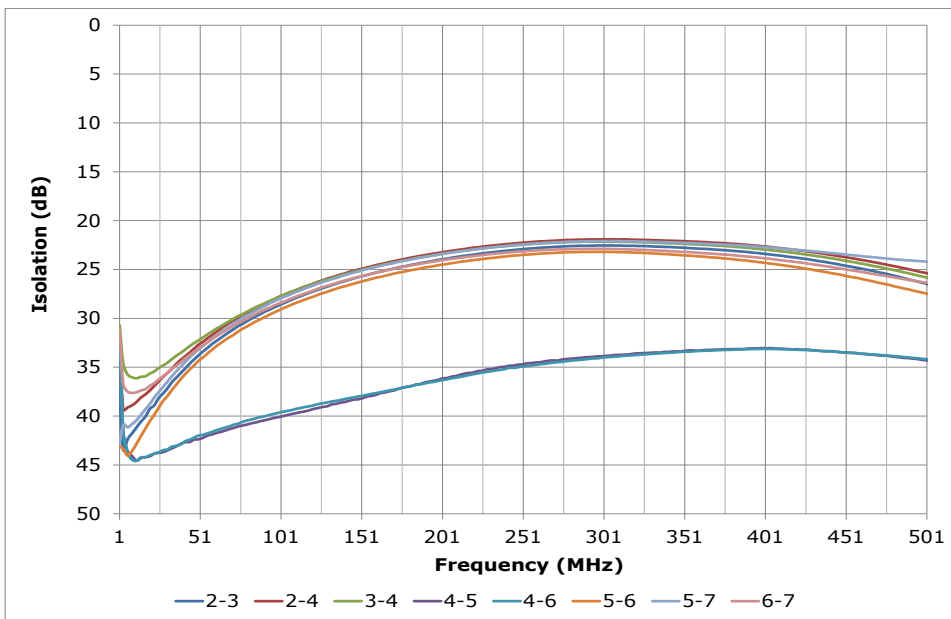
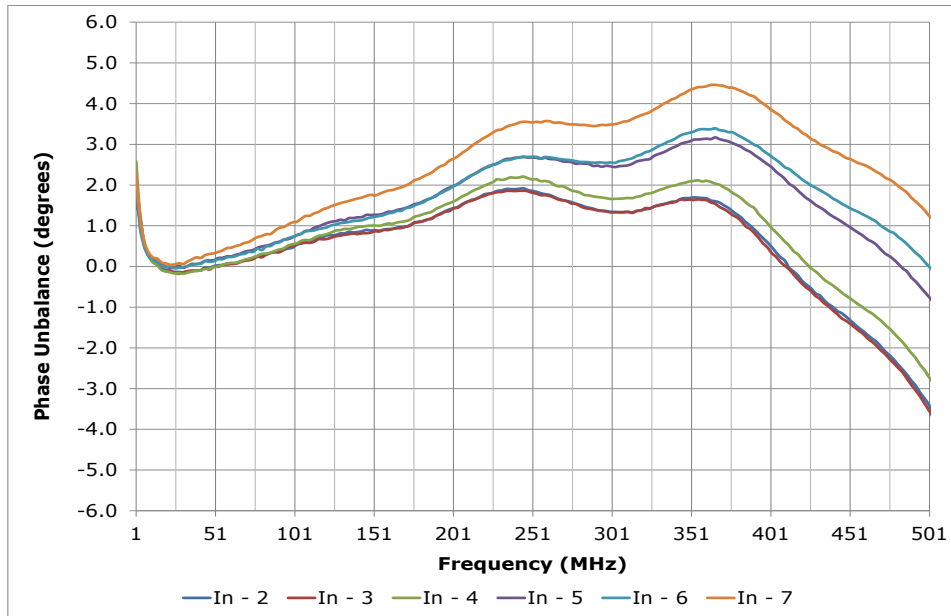
## CONNECTORIZED MODEL: DFK-705S

WIDE BANDWIDTH

1 - 500 MHz

DATA @ 25°C

PERFORMANCE PLOTS



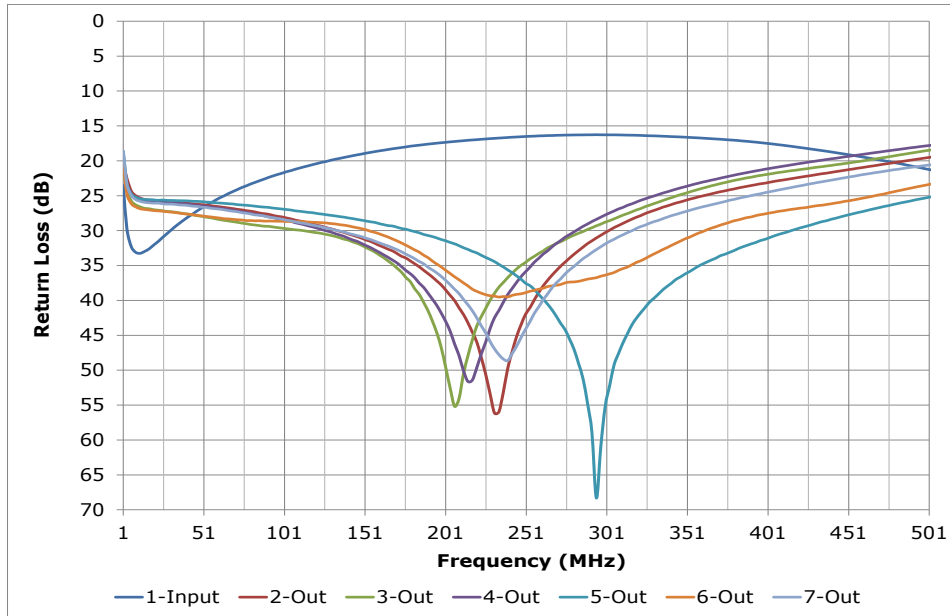
# 6-WAY POWER DIVIDER

## CONNECTORIZED MODEL: DFK-705S

WIDE BANDWIDTH

1 - 500 MHz

DATA @ 25°C



PERFORMANCE PLOTS