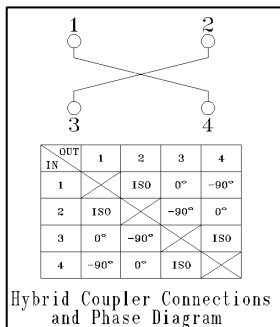


## HY67PNC-3 HYBRID COUPLER

### Features:

- Small Size
- Custom Designs Available
- Surface Mounted
- Low Cost
- Available on Tape and Reel



Mid-Atlantic RF Systems offers an extremely low loss 90 degree hybrid coupler operating at a nominal center frequency of 667 MHz. This is a high performance precision stripline hybrid which will handle up to 250 watts of CW RF power. This part is designed to directly replace the SAGE Wireline (0.25 inch square) with significant cost reduction without sacrificing performance.

### Electrical Specifications:

<b>Frequency Range:</b>	470 to 860 MHz
<b>Return Loss:</b>	20.8 dB
<b>Coupling Loss:</b>	3.02 dB
<b>Excess Loss:</b>	0.08 dB nom 0.15 dB max
<b>Amplitude Balance:</b>	Overcoupled at 2.6 to 2.7 dB (direct arm loss)
<b>Phase Balance:</b>	< 2 degrees typ
<b>VSWR:</b>	1.2:1 max
<b>Power Handling:</b>	250 Watts CW
<b>Isolation:</b>	> 23dB with a 1.1:1 VSWR load

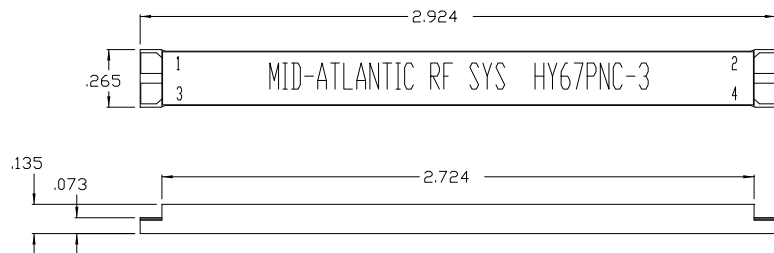
### Mechanical Specifications:

**Dimensions:** 2.924" x 0.265" x 0.135"

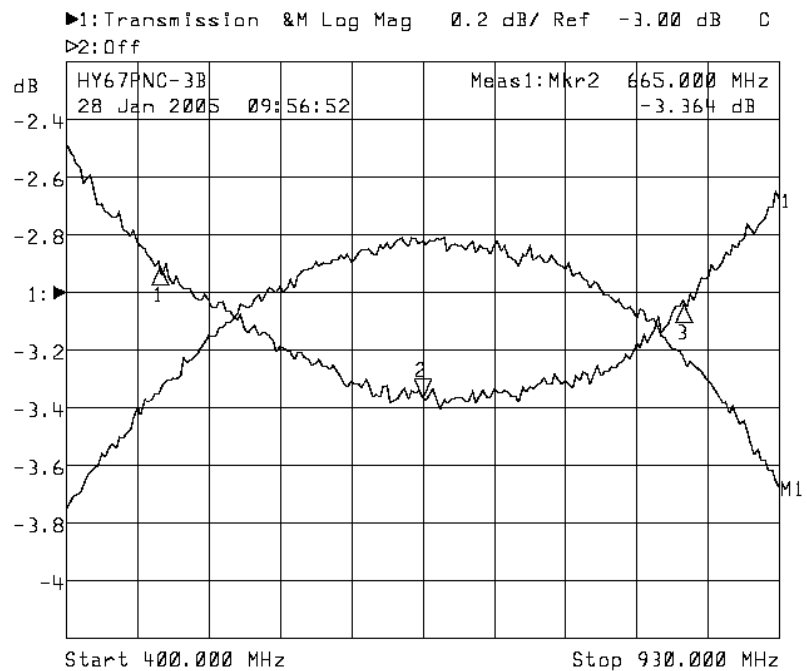
### Environmental Specifications:

**Operating Temperature:** -55°C to +90°C

### Outline Drawing



All dimensions in inches



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1: 470.00	-2.911		
2: 665.00	-3.364		
3: 860.00	-3.039		