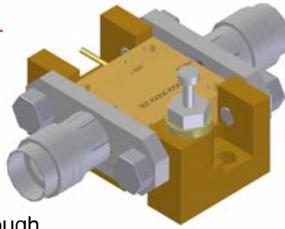


#### Features

- **Noise Figure  $\leq 4.0$  dB**
- Unconditionally Stable at all temperatures
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable SMA connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- 3 Year Warranty

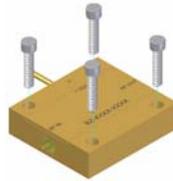


#### Specifications (23 °C)

Parameter	Min	Typ	Max	
Frequency Range	0.1	-	30	GHz
Noise Figure *			4.0	dB
Gain	21	22	-	dB
Gain Flatness	-		$\pm 1.0$	dB
P1dB Output Power	7		-	dBm
Input VSWR	-		2.0:1	
Output VSWR	-		2.0:1	
Operating Temperature	-55	-	+85	°C
Third Order Intercept				dBm
Second Order Intercept				dBm
Group Delay				psec
Voltage	+12	-	+15	V
Current	-	135	150	mA

#### Options

- **Optimized Performance over Selected Bandwidth**
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Improved Gain Flatness  $\pm 1.0$  dB Max
- Gain and Phase matching
- Lower Noise Figure (**Cryogenic Temp**)

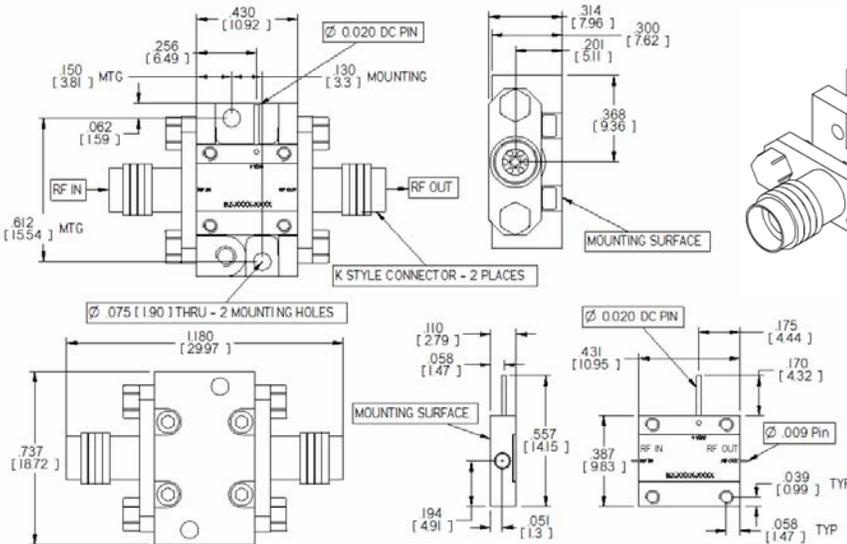


\* Noise Sources used for measurement: 0.1– 18 GHz: HP346A, 18 – 30 GHz: HP346C-K01 N.F. Uncertainty (approx. 0.3 dB). 0.2 dB due to ENR of HP 346C-K01, and 0.1 dB, due to gain modulation of the unit, caused by the HP 346C-K01 source impedance change in the ON and OFF state.

Noise Figures and other parameters degrade below 500 MHz. Noise Figures at **Cryogenic Temp**, not given due to uncertainty of measurement for very low values. Call to discuss.

#### Performance Graphs

#### Outline Drawing



#### Mounting Drawing

XXXXX

