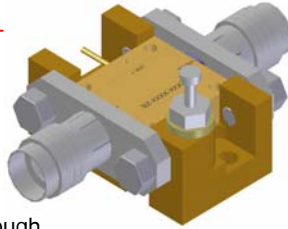


### Features

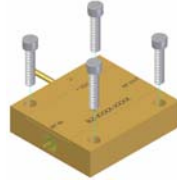
- **Noise Figure  $\leq 3.5$  dB**
- Unconditionally Stable at all temperatures
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable SMA connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- 3 Year Warranty



### Specifications (23 °C)

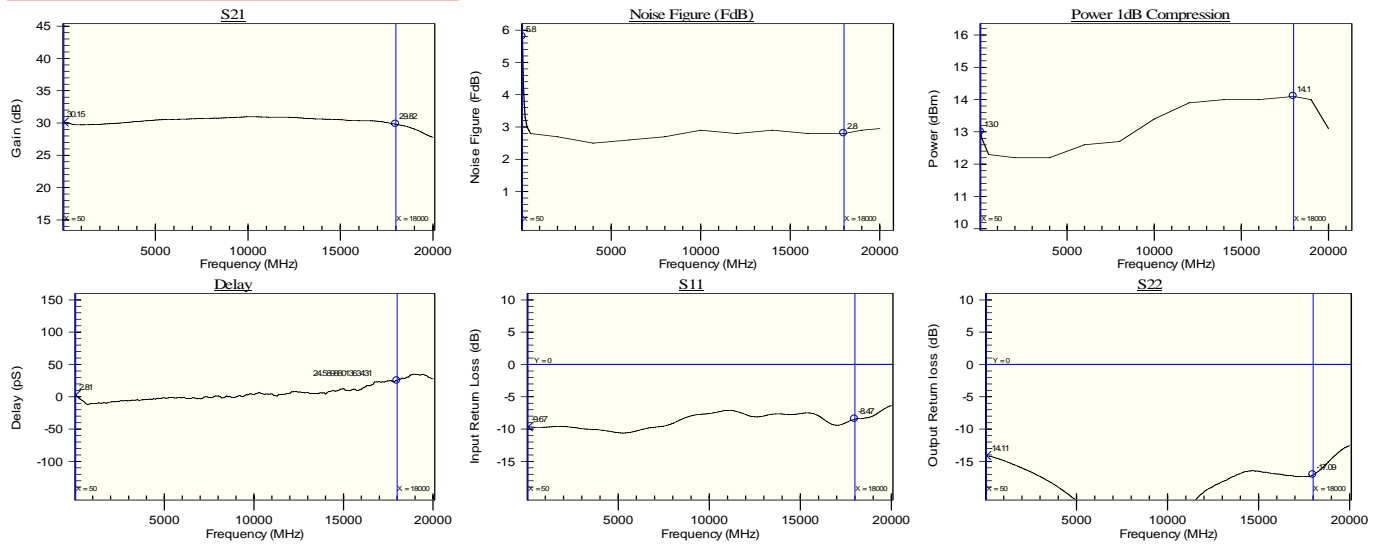
Parameter	Min	Typ	Max	
Frequency Range	0.01	-	18	GHz
Noise Figure *		3.0	3.5	dB
Gain	25	27	-	dB
Gain Flatness	-	$\pm 1.0$	$\pm 1.5$	dB
P1dB Output Power	10	12	-	dBm
Input VSWR	-	2.3:1	2.5:1	
Output VSWR	-	1.8:1	2.0:1	
Operating Temperature	0	-	+85	°C
Third Order Intercept		21		dBm
Second Order Intercept		30		dBm
Group Delay .1-18 GHz		$\pm 20$		psec
Voltage	+15	-		V
Current	-	165	195	mA

FREQ(MHz)	NF(dB)
10	13.0
20	10.0
30	7.5
40	6.5
50	5.8
100	4.3
200	3.3
500	2.8

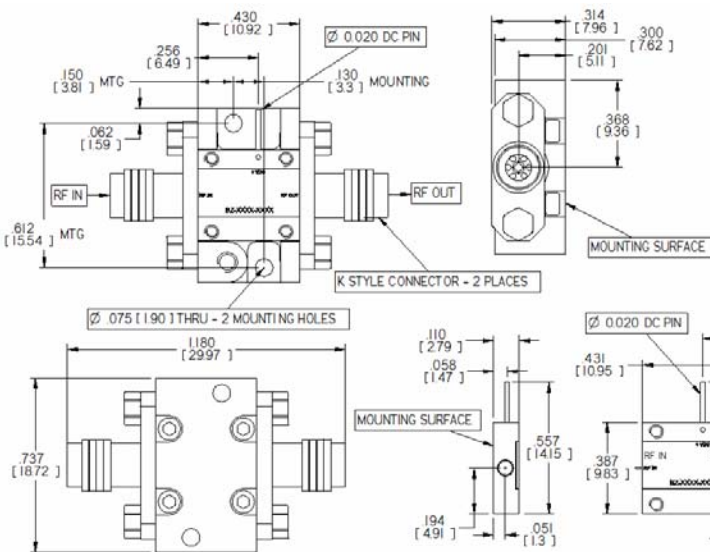


\* Noise Sources used for measurement: 0.1- 18 GHz: HP346A, N.F. Uncertainty (approx. 0.2 dB). 0.1 dB due to ENR of HP 346A, and 0.1 dB, due to gain modulation of the unit, caused by the HP 346A source impedance change in the ON and OFF state.  
Noise Figure below 500 MHz see table on left.  
Noise Figures at Cryogenic Temp, not given due to uncertainty of measurement for very low values. Call to discuss.

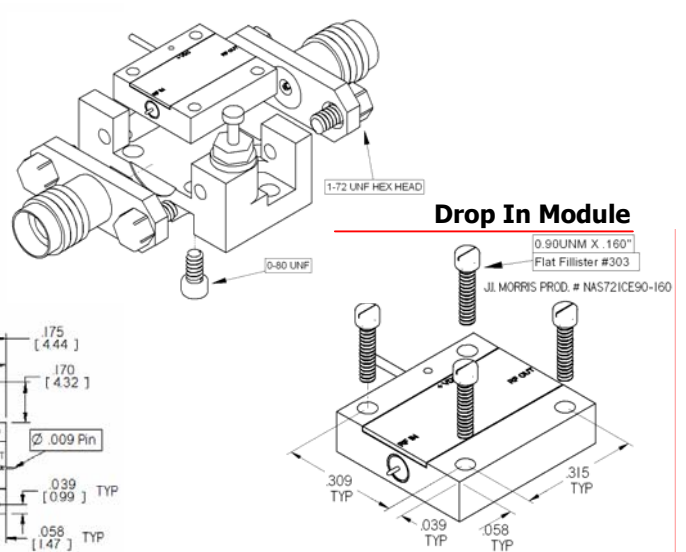
### Performance Graphs



### Outline Drawing



### Mounting Drawing



00199