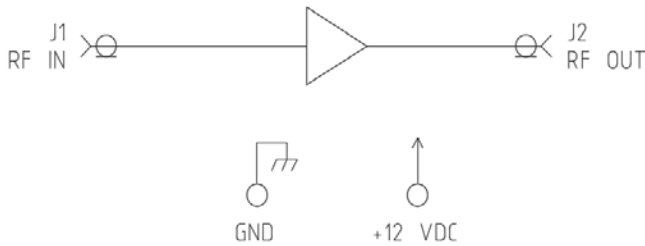


FEATURES

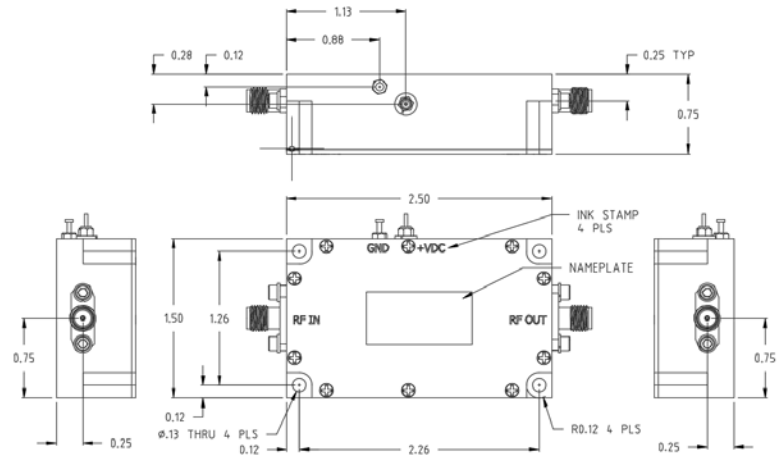
- Technology: pHEMT
- Frequency Range: 0.05-2.00 GHz
- Output P_{1dB} Power: 2.5W Min
- Output P_{SAT} Power: 3.0W Min
- Ultra-High IP2: 57 dBm
- Ultra-High IP3: 48dBm
- Small Signal Gain: 30 dB Typical
- S.S. Gain Flatness: ± 0.25 dB
- Noise Figure: 3.8dB Typical
- DC Input: +10 to +13V
- Interface: SMA/Fed Thru
- Input Survivability +30dBm

APPLICATIONS: Ultra Linear Power Amplifier

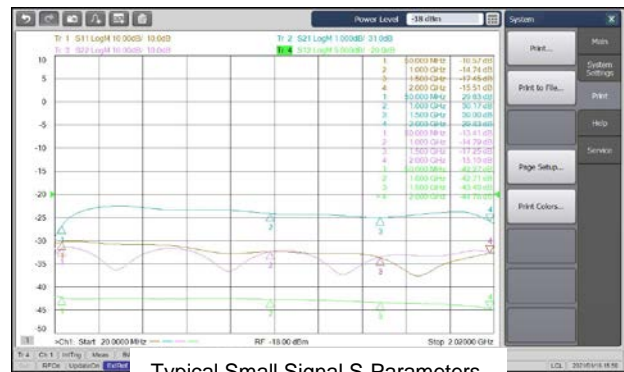
FUNCTIONAL BLOCK DIAGRAM



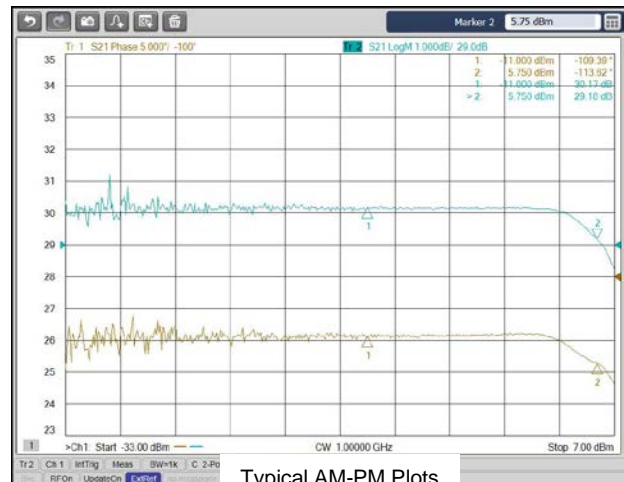
OUTLINE DRAWING



TYPICAL PERFORMANCE



Typical Small Signal S-Parameters



Typical AM-PM Plots

PRODUCT SPECIFICATION

Parameter	Min.	Typ.	Max.	Units	Notes
Frequency	0.05		2.00	GHz	
Output P_{1dB} Power	33	34		dBm	
Output P_{SAT} Power	34	35		dBm	
Output IP ₂	57	58		dBm	
Output IP ₃	48	49		dBm	
Small Signal Gain	29	30	31	dB	
S.S. Gain Flatness		± 0.20	± 0.25	dB	
NF		3.8	4.2	dB	
VSWR (Input)	1.4:1	1.5:1			
VSWR (Output)	1.4:1	1.5:1			
Harmonic (2 nd)		-40	-38	dBc	+19dBm Output
Impedance		50		Ω	
Input Power			+20.0	dBm	
DC Voltage	+10	+12	+13	V	
DC Current (+12V)		1.65	1.75	A	CW
Dimensions	2.50"x1.50"x0.75"			inch	
Operating Temp	0	+25	+65	$^{\circ}$ C	Baseplate