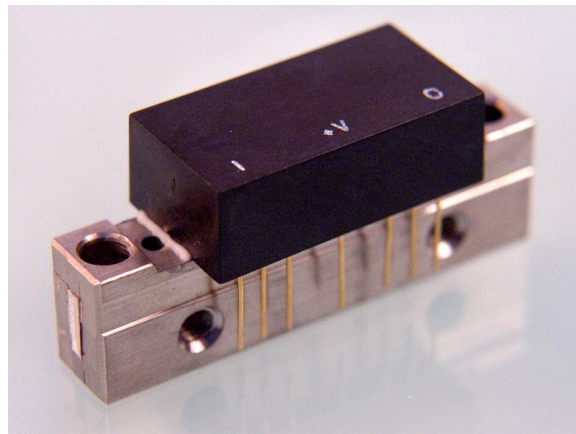


Features: (typical values)

- Output Power – 1200mW. @ 1dB. compression, f=200 MHz
- Low Noise Figure – 3.6 dB.
- IP3 – 46 dBm. @ f = 200 MHz
- IP2 – 80 dBm.
- Usable for 50 – 100 ohm systems
- Unconditional Stability

**1 – 320 MHz
35.0 dB CATV Linear
Amplifier**



Maximum Ratings

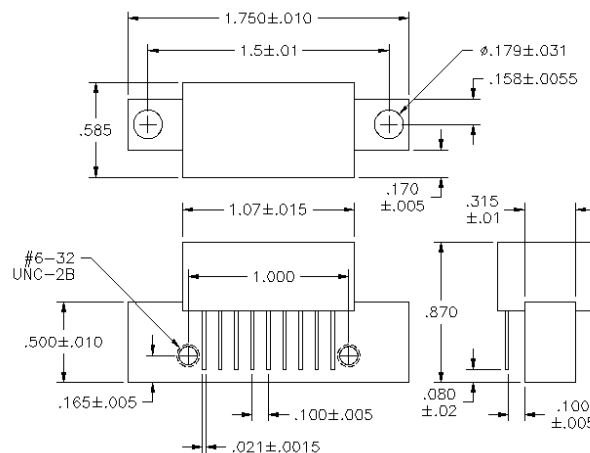
Storage temperature -55°C to +125°C
 DC Operating Voltage +28.0 volts
 RF Input Voltage +5 dBm. Max.
 Operating Base Temp. -20 to +85°C

Specifications @ Tcase = 25°C, Vcc = 24V, 50 ohm systems unless otherwise noted.

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		1	320	MHz.
Power Gain	35.5	34.0	37.0	dB.
Gain Flatness (peak to peak)	0.5		1.0	dB.
Input VSWR	1.7		2.0:1	-
Output VSWR	1.7		2.0:1	-
Noise Figure (f = 200mhz)	4.5		6.5	dB.
Power Output- 1dB Compression (f = 1-320 MHz)	1000	800		mW.
Power Output- 1 dB Compression (f=200 MHz)	1200			mW.
Third Order Intercept (IP3)	45	42		dBm.
Second Order Intercept (IP2)	80	70		dBm.
Peak Envelope Power (PEP)	900	600		mW.
Supply Current	320		370	mA.

Pin Configuration

PIN#	Description
1	Input
2,3,7,8	Ground
5	+V.
9	Output
4, 6	Not used



FINAL TEST REPORT

TEST	LIMIT / S/N	ACTUAL DATA
Gain 1 MHz to 320 MHz	34.0 dB min 37.0 dB max	35.2 35.7
Gain Flatness (peak to peak) 1 MHz to 320 MHz	1.0 dB max	0.5
Noise Figure @ 200 MHz	6.5 dB max	3.86
DC Current at +24 Vdc	370 mA max	333
Input VSWR 1 MHz to 320 MHz	2.0: 1 max	1.53
Output VSWR 1 MHz to 320 MHz	2.0: 1 max	1.75
Power Output @ 1dB Comp 1 MHz to 320 MHz	+29dBm (800 mW) min	29.6
P 1.0 dB Compression @ 200 MHz	+30.8 dBm (1200 mW) typ	30.9
IP3 @ Pout = +15.0 dBm 1) F(1,2)= 5,6 MHz Fc(4,7 MHz) 2) F(1,2)= 318,319 MHz Fc(317,320 MHz)	+40.0 dBm min	41.5
IP2 @ Pout = 15.0 dBm 1) F(1,2) = (150+160) MHz Fc = 310 MHz 2) F(1,2) = (160-150) MHz Fc = 10 MHz	+70.0 dBm min	74.0
Stability Test All frequency range Where / S21/ >0dB	0 dB max	<0

