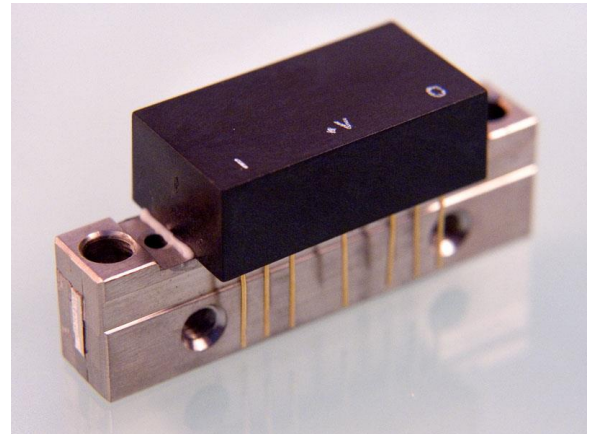


Features: (typical values)

- Output Power – 1000mW. @ 1dB. compression, f=15 MHz
- Low Noise Figure – 5.0 dB.
- IP3 – 46 dBm. @ f = 100 MHz
- IP2 – 80 dBm.
- Usable for 50 – 100 ohm systems
- Unconditional Stability

**1 – 200 MHz
19.0 dB CATV Wideband Linear
Amplifier**



Maximum Ratings

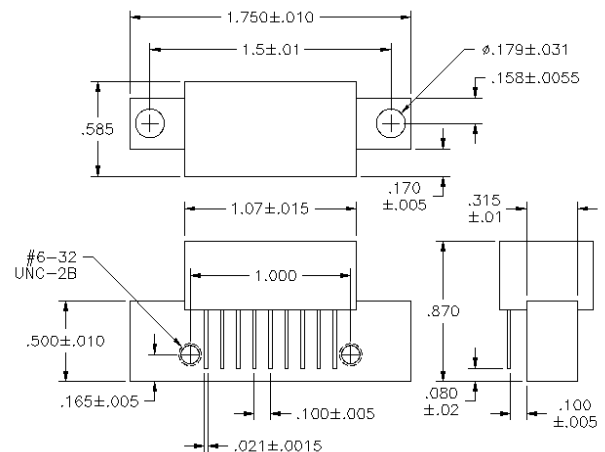
Storage temperature -55°C to +125°C
 DC Operating Voltage +24.5 volts
 RF Input Power +15 dBm. Max.
 Operating Base Temp. -40 to +90°C

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

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		1	200	MHz.
Power Gain	19.0	18.0	20.0	dB.
Gain Flatness (peak to peak)	0.5		1.0	dB.
Input VSWR	1.3		1.7:1	-
Output VSWR	1.3		1.7:1	-
Noise Figure	5.0		6.0	dB.
Power Output- 1dB Compression	1000	800		mW.
Third Order Intercept (IP3)	46	44		dBm.
Second Order Intercept (IP2)	80	70		dBm.
Peak Envelope Power (PEP)	700	400		mW.
Supply Current	230		250	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 0, 25, 85° C	ACTUAL DATA
Gain 1.0 MHz to 200 MHz	18.0 dB min 20.0 dB max	19.1 19.3
Gain Flatness 1.0 MHz to 200 MHz	±0.5 dB max	±0.1
DC Current at +23.5 Vdc min & + 24.5 Vdc max	260 mA max	219
Input VSWR 1.0 MHz to 200 MHz	1.7 : 1 max	1.33
Output VSWR 1.0 MHz to 200 MHz	1.7 : 1 max	1.48
Noise Figure @ 150 MHz	5.0 dB max	3.75
P 1.0 dB Compression 1.0, 100, 200 MHz	29.0 dB min	29.8
IP3 with Pout = +15.0 dBm 1) F(1,2)= 198, 199 MHz Fc(197, 200 MHz)	+44.0 dBm min	46.0
IP2 with Pout = +15.0 dBm 1) F(1,2)= 10 + 190 MHz Fc(200 MHz) 2) F(1,2)= 200-190 MHz Fc(10 MHz)	+70.0 dBm min	74.0
Stability Test. For all frequency range Where $ S_{21} > 0$ dB	0 dB max	<0

