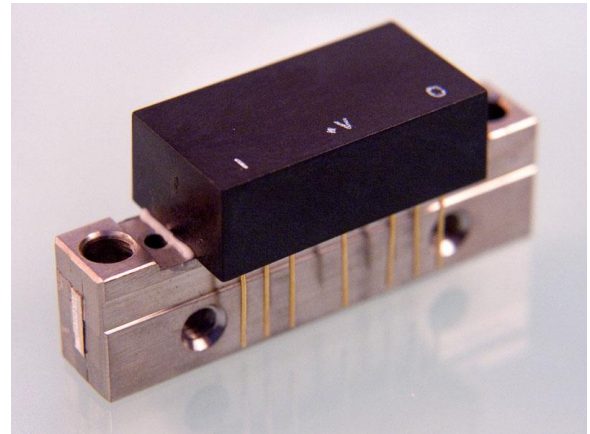


Features: (typical values)

- Output Power – 1100mW. @ 1dB. compression, f=100 MHz
- Low Noise Figure – 5.0 dB.
- IP3 – 46 dBm. @ f = 100 MHz
- IP2 – 80 dBm.
- Usable for 50 – 100 ohm systems
- Unconditional Stability

**5 – 200 MHz
35.0 dB CATV Linear
Amplifier**



Maximum Ratings

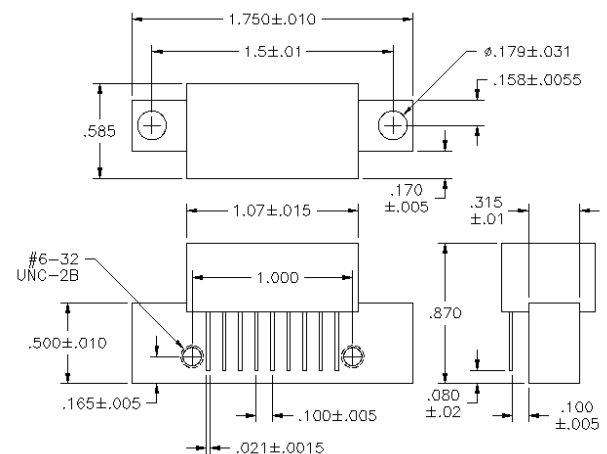
Storage temperature -55°C to +125°C
 DC Operating Voltage +25.0 volts
 RF Input Voltage +5 dBm. Max.
 Operating Base Temp. -20 to +85°C

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

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		5	200	MHz.
Power Gain		34.0	37.0	dB.
Gain Flatness (peak to peak)		0.5	1.0	dB.
Input VSWR		1.4	1.7:1	-
Output VSWR		1.4	1.7:1	-
Noise Figure (f = 200mhz)		5.0	6.0	dB.
Power Output- 1dB Compression (f = 1-200 MHz)		800		mW.
Power Output- 1 dB Compression (f=100 MHz)		1100		mW.
Third Order Intercept (IP3)		42		dBm.
Second Order Intercept (IP2)		70		dBm.
Peak Envelope Power (PEP)		600		mW.
Supply Current		340	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 5 MHz to 200 MHz	34.0 dB min 37.0 dB max	35.2 35.7
Gain Flatness (peak to peak) 5 MHz to 200 MHz	1.0 dB max	0.5
Noise Figure @ 200 MHz	6.0dB max	5.0
DC Current at +24 Vdc	370 mA max	319
Input/Output VSWR 5 MHz to 200 MHz	1.7: 1 max	1.31 1.42
Power Output @ 1dB Comp 5-200MHz	800 mW min	1000
P 1.0 dB Compression @ 100 MHz	1100 mW Typ	1300
IP3 @ Pout = +15.0 dBm 1) F(1,2)= 199,200 MHz Fc(198,201 MHz)	+42.0 dBm min	44.0
IP2 @ Pout = +15.0 dBm 1) F(1,2)= 10+190MHz Fc(200 MHz)	70.0 dBm min	75.0
PEP (PEP= 4xPo @ -32 IMD)	600mW Min	896
Stability Test for all frequency range where S21 > 0 dB	0 dB max	<0

