

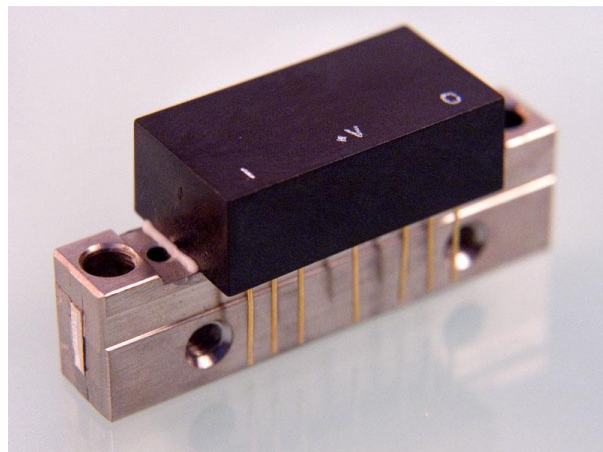
Features: (typical values)

- Output Power – 700mW @ 1dB compression, f=50 MHz
- Very high Gain
- Low Noise Figure – 3.6 dB
- IP3 – 45 dBm @ f = 100 MHz
- IP2 – 75 dBm
- Usable for 50 – 100 ohm systems
- Unconditional Stability
- No external components required

Maximum Ratings

Storage temperature -40°C to +100°C
 DC Operating Voltage +28.0 volts
 RF Input Voltage +5 dBm. Max.
 Operating Base Temp. -20 to +100°C

1.0 – 250 MHz 35 dB CATV Wideband Linear Amplifier

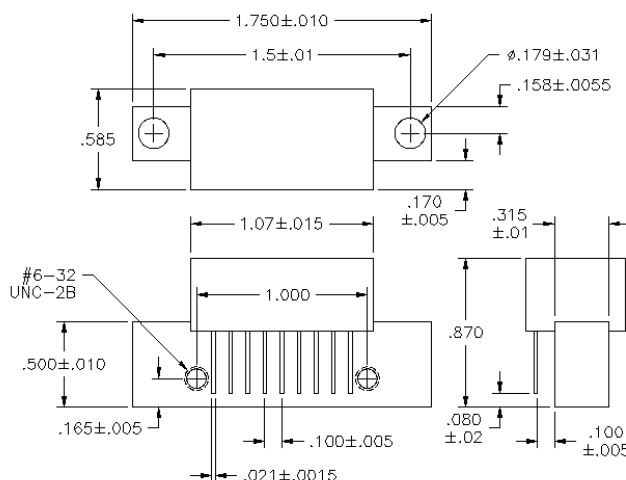


Specifications @ Tcase = 25°C, Vcc = 24V, 50 ohm systems unless otherwise noted.

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		1.0	250	MHz.
Power Gain	35.0	33.0	37.0	dB.
Gain Flatness (peak to peak)	0.5		1.0	dB.
Input VSWR	1.4		2.0:1	-
Output VSWR	1.4		2.0:1	-
Noise Figure(f = 200mhz)	3.6		5.5	dB.
Power Output- 1db Compression (f = 1-250 MHz)	700	500		mW.
Third Order Intercept (IP3)	43	40		dBm.
Second Order Intercept (IP2)	75	60		dBm.
Supply Current	320		340	mA.

Pin Configuration

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



FUNCTIONAL BLOCK DIAGRAM

