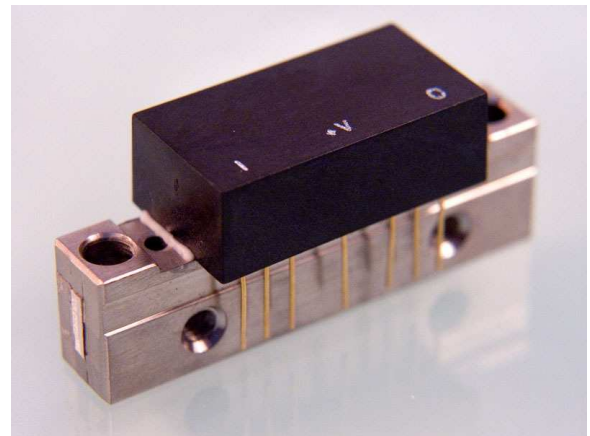


**Features: (typical values)**

- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Operation over wide voltage range
- Usable for 50 ohm operation
- Unconditional Stability

**40 – 550 MHz  
38 dB CATV Ultra-linear  
Amplifier**



**Maximum Ratings**

Storage temperature ..... -40°C to +100°C  
 DC Operating Voltage ..... +26.0 volts  
 RF Input Voltage ..... 40 dBmV max.  
 Operating Base Temp. .... +100°C

Specifications @ Tcase = 30°C (Referenced to 75 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		40	550	MHz.
Power Gain	f = 50MHz.	37.0	38.0	dB.
Cable equivalent slope	f = 40MHz. TO 550MHz.	0	1.0	dB.
Gain Flatness (peak to valley)	f = 40MHz. TO 550MHz.		0.8	dB.
Input/Output Return Loss	f = 40 To 160 MHz.	18		dB.
Input/Output Return Loss	f = 160 To 550 MHz.	16		dB.
Composite Triple Beat (CTB)	77 channels flat, Vo=44dBmV. Measured @ Channel 78		-57	dB.
Cross Modulation (XMOD)	77 channels flat, Vo=44dBmV. Measured @ Channel 2		-57	dB.
Composite 2 <sup>nd</sup> Order (CSO)	77 channels flat, Vo=44dBmV. Measured @ Channel 78		-57	dB.
IP <sub>3</sub> /IP <sub>2</sub>	2 tones @ +15dbm per tone	42/60		dBm.
Noise Figure (NF)	@ f = 550 MHz.		6.5	dB.
Total Current (I <sub>TOT</sub> )	@ +24V/330mA		340	mA.

**Pin Configuration**

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

