

Features: (typical values)

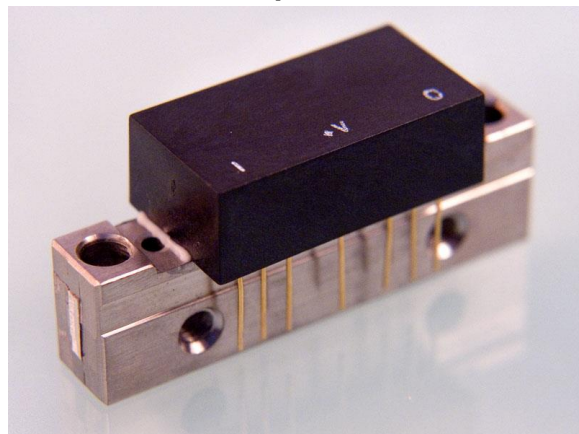
- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Operation over wide voltage range
- Usable for 50 ohm operation
- Unconditional Stability

Maximum Ratings

Storage temperature -40°C to +100°C
 DC Operating Voltage +28.0 volts
 RF Input Voltage 40 dBmV max.
 Operating Base Temp. +100°C

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

20 – 550 MHz 22dB CATV Ultra-linear Amplifier



Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		20	550	MHz.
Power Gain	f = 50MHz.	21.0	23.0	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 = 160To 1200 MHz.	16		dB.
Composite Triple Beat (CTB)	79 channels flat, Vo=60dBmV. Measured @ Channel 78		-70	dBc
Cross Modulation (XMOD)	79channels flat, Vo=60dBmV. Measured @ Channel 2		-62	dBc
Composite 2 nd Order (CSO)	79 channels flat, Vo=60dBmV. Measured @ Channel 78		-70	dBc
IP ₃ /IP ₂ 2 tones @ +15dbm per tone	52/80	49/75		dBm.
P1dB	+35	33		dbm
Noise Figure (NF)	2.3 dB		4.0	dB.
Total Current (I _{TOT})	+24V/400mA		440	mA.

Pin Configuration

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

