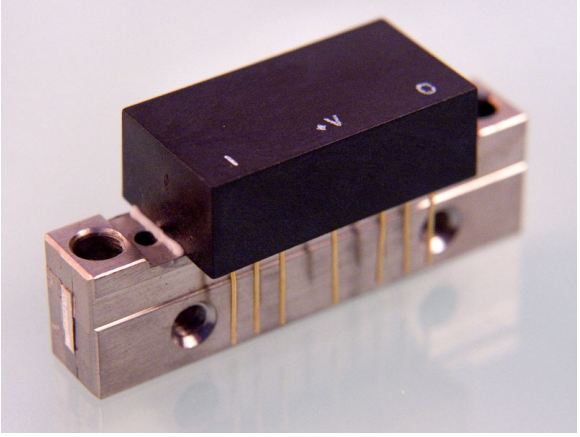
ASC500

Features: (typical values)

- Output Power – 800mW. @ 1dB. compression, f=150 MHZ
- Low Noise Figure – 3.6 dB.
- IP3 – 44 dBm. @ f = 200 MHZ
- IP2 – 70dBm. @ f = 100 MHZ
- Usable for 50 – 100 ohm systems
- Unconditional Stability

10 – 400 MHz
37 dB CATV Linear
Amplifier



Maximum Ratings

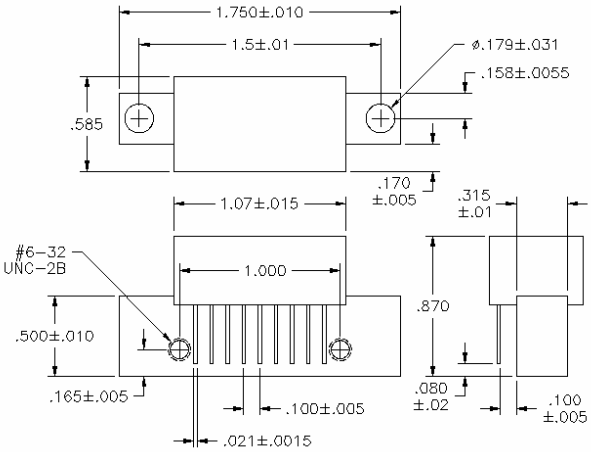
Storage temperature ..... -55˚C to +125˚C
DC Operating Voltage ..... +28.0 volts
RF Input Voltage ..... +0 dBm. Max.
Operating Base Temp. ..... -20 to +85˚C

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

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		10	400	MHz.
Power Gain	37.0	36.0	39.0	dB.
Gain Flatness (peak to peak)	0.5		1.0	dB.
Input VSWR	1.5		2.0:1	-
Output VSWR	1.7		2.0:1	-
Noise Figure (f = 200mhz)	4.0		6.5	dB.
Power Output- 1db Compression (f = 10-400 MHz)	700	500		mW.
Power Output- 1db Compression (f = 150 MHz)	800			mW.
Third Order Intercept (IP3)	42	39		dBm.
Second Order Intercept (IP2)	70	60		dBm.
Supply Current	340		360	mA.

Pin Configuration

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



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