

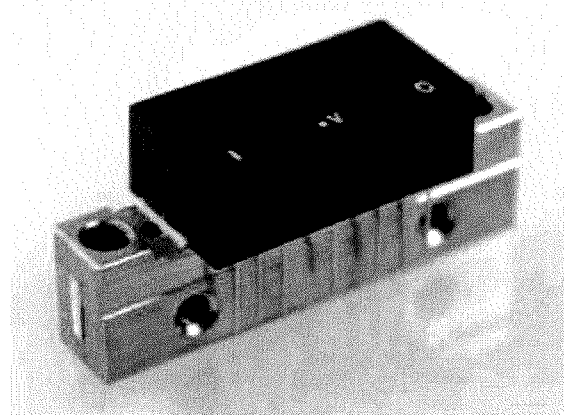


# CA2818C

### Features: (typical values)

- Output Power – 1000mW. @ 1dB. compression, f=15 MHz
- Low Noise Figure – 3.6 dB.
- IP3 – 46 dBm. @ f = 100 MHz
- IP2 – 80 dBm.
- Usable for 50 – 100 ohm systems
- Unconditional Stability

### 1 – 200 MHz 19.0 dB CATV Wideband Linear Amplifier



### Maximum Ratings

Storage temperature ..... -55°C to +125°C  
 DC Operating Voltage ..... +28.0 volts  
 RF Input Voltage ..... +5 dBm. Max.  
 Operating Base Temp. .... -40 to +90°C

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

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		1	200	MHz.
Power Gain	19.0	18.0	20.0	dB.
Gain Flatness (peak to peak)	0.5		1.0	dB.
Input VSWR	1.3		1.7:1	-
Output VSWR	1.3		1.7:1	-
Noise Figure	4.0		5.0	dB.
Power Output- 1dB Compression	1000	800		mW.
Third Order Intercept (IP3)	46	44		dBm.
Second Order Intercept (IP2)	80	70		dBm.
Peak Envelope Power (PEP)	700	400		mW.
Supply Current	230		250	mA.

### Pin Configuration

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

