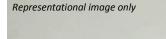
AMERICAN MICROSEMICONDUCTOR

Advancing the Semiconductor Industry Since 1972

AMS2818C 1-200MHz 19.0 dB CATV Wideband Linear Amplifier



FEATURES

- Output Power 900mW. @ 1dB. compression, f=150 MHZ
- Low Noise Figure 3.6 dB.
- IP3 46 dBm. @ f = 100 MHZ
- IP2 80 dBm.
- Usable for 50 100 ohm systems
- Unconditional Stability

MAXIMUM RATINGS

Storage temperature	55°C to +125°C
DC Operating Voltage	+24.5 volts
RF Input Power	
Operating Base Temp	40 to +90°C

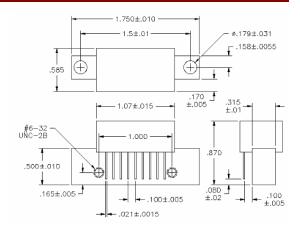
ELECTRICAL CHARACTERISTICS @ Tcase = 25° C, V_{cc} = 24V, 50 ohm systems unless noted

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 @ 150 MHz	900	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	205		220	mA.

MECHANICAL / DIMENSIONAL CHARACTERISTICS

Pin Configuration

PIN#	Description
1	İnput
2,3,7,8	
5	
9	Output
4, 6	Not used



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