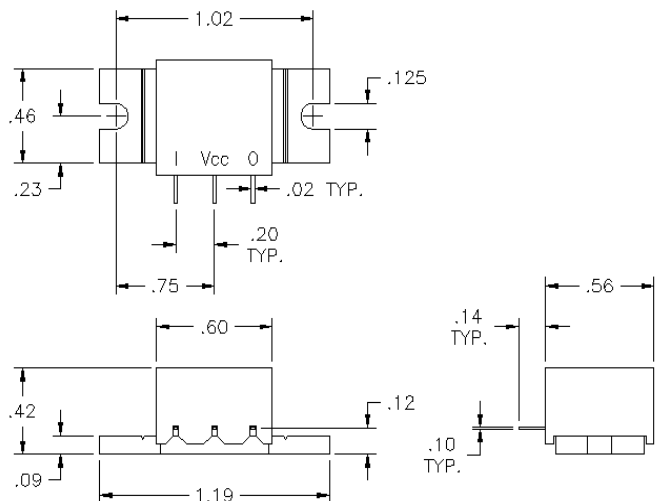


ASC300 1800-2000 MHz. Ultra Linear Power Amplifier

Typical Performance Curves @ 25°C



Features: (typical values)

- High Output Power +33.0 dBm.
- High IP₃ +50.0 dBm.
- Low NF 3.2 dB.
- Low Cost
- No external components required

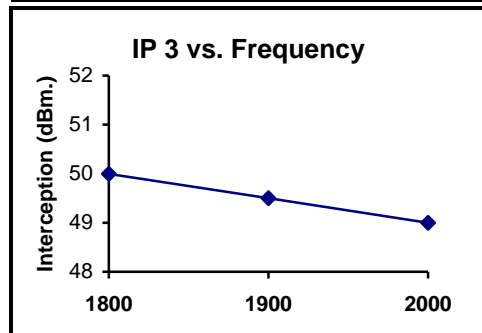
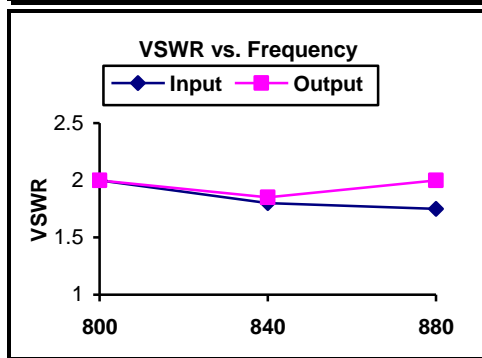
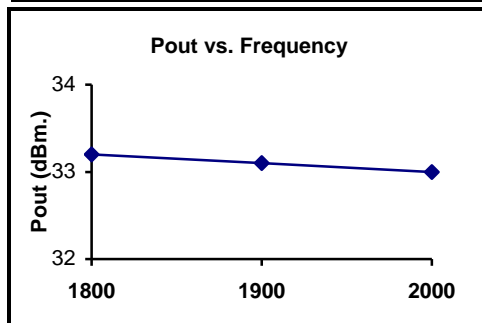
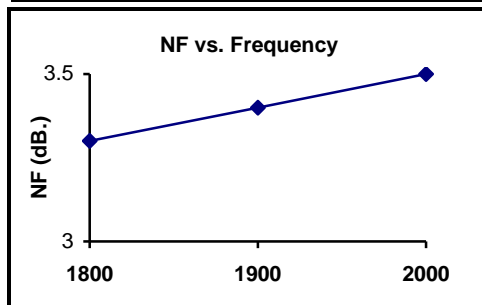
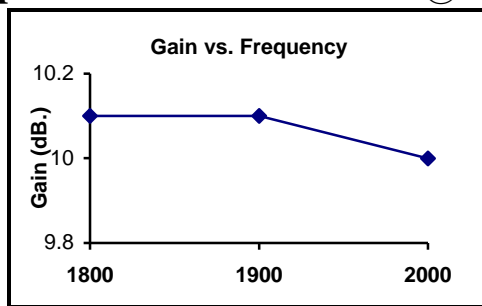
Electrical Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		1800	2000	MHz.
Gain	10.0	8.5		dB.
Gain Flatness	±0.3			dB.
Reverse Isolation	15			dB.
Pout @ 1dB. Comp.	33.0	32.0		dBm.
Noise Figure	3.5		4.0	dB.
IP ₃ (two tone)	+50.0	+46.0		dBm.
VSWR In/Out	2.0:1		2.5:1	
Supply Req'd	+10/725		+10/775	v./mA.

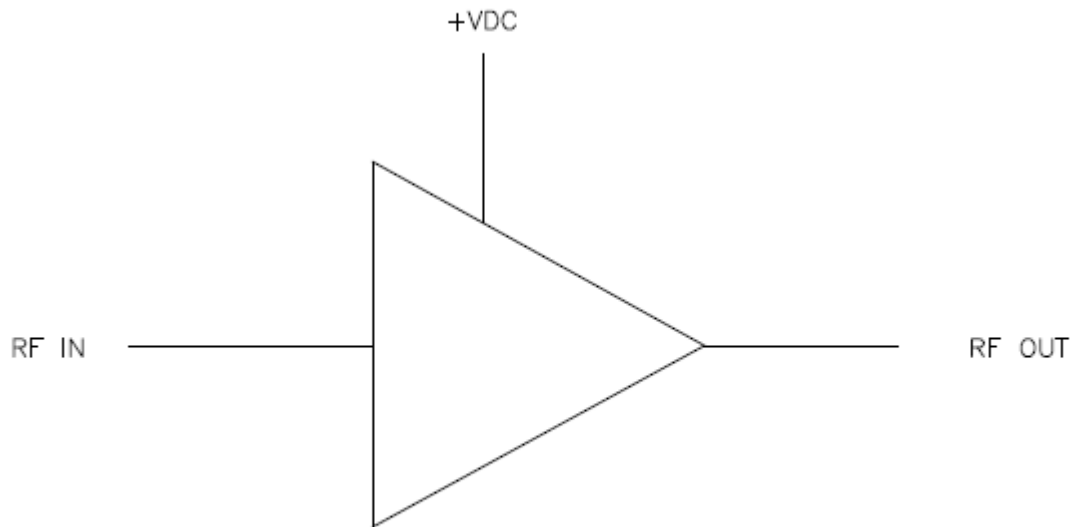
IP₃ measured with 2 tones @ +20dBm. per tone
Min and max values from 0 to 85 degrees C

Maximum Ratings

Storage Temperature -40°C to +85°C
DC Voltage +12 volts
RF Input Power +28 dBm.
Case Temperature +95°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED