



The MP2000/2000/200K-A is suitable for broadband low noise and linear power amplification. The amplifier employs E-pHEMT technology that provides wide dynamic range, low noise figure, excellent linearity and unconditional stability.



## Model: MP1250/2000/200K-A

### 1. Electrical Characteristics

Item	Value	Note
Frequency Range	500 ~ 2000 MHz	
Gain	20 dB (Typ.)	
Gain Flatness	± 1.0 dB (Max.)	Over Freq. Range
Gain Variation	± 0.5 dB	Over Temp. Range
Output P1	+18 dBm (Min.)	
Input / Output VSWR	2.0:1 (Max.)	
Noise Figure	1.6 dB (Max.)	@ 25 °C
Output 3 <sup>rd</sup> Intercept	+33 dBm (Typ.)	Two tones, @ +7 dBm per tone, 1 MHz spacing
Spurious	-70 dBc (Max.)	
DC Input	+ 15V / 0.10A (Typ.)	
Input / Output Impedance	50 Ω	
Max Input Power	+5 dBm	

### 2. Mechanical Characteristics

RF IN/OUT	SMA Female	4 – 40 screw
DC Input	#8 Feed-thru	
Dimensions	2.1" x 1.85" x 0.62"	

### 3. Environment Characteristics

Operating Temperature	-20°C ~ +80°C	Base Plate
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### Revision History

REV	Reason to Change	Date	Initialed by

### 4. Outline Drawing

