

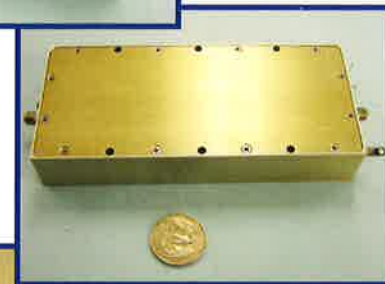
# Mnemonics 100 watt Mobile/Airborne SATCOM HPA (Part# 980-1237-002) (Part# PA100-305-30)



## Amplifier Features:

- UHF Military SATCOM
- Waveforms FM, FSK, PSK, CPM, TDMA/DAMA, MUOS, WCDMA
- Low Power Usage – High Efficiency
- Lowest Cost
- JITC Certification

Parameter	Specification
Frequency	290-320 MHz
Max Output Power	125 Watts CW
P 1dB	100 Watts
Gain	46 dB
Gain variation over temp	+/- .25 dB, 0-50C
Gain Ripple	+/- 1.5 dB, 292-318 MHz
DC Power Supply	28 Volts, 10.0 amps
AC Power (ATR config.)	90-270 Vac @ 47-440 Hz
Efficiency	50%
Key Line Control Signal	2 VDC ≤ Key Line ≤ 15 VDC @ (80mA max)
Harmonics/Spurious	<- 60 dBc
Input VSWR	3:1 @ 50 ohms
Output VSWR	3:1 @ 50 ohms
RF connectors	Sma Female
DC connector	Solder lugs
Size	5.6 x 2.5 x 0.9375 inches
Size (ATR config.)	12.62 x 7.62 x 2.25 in (1/4 ATR)
Weight	13.5 Oz
Weight (ATR config.)	7.25 lbs
Operating Temp	0° - 50° C
Thermal Shutdown with Auto Recovery	+85° C
Humidity	95% Non-condensing
Altitude	40,000 feet Operating



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