Go to xicomtech.com to see our full X-, Ku- and Ka-band line of Puma products for solutions across the spectrum.
Puma 72KaD
Dual 72W Ka-band GaN SSPA / BUC

Frequency and Input Levels
- RF Output Frequency: 27.5 to 30 GHz
- Input Level, No Damage: +10 dBm max
- IF/Ref Input Impedance: 50 ohms

With optional 1 GHz BUC
- other BUC options available
- IF Input Frequency: 2300 to 3300 MHz
- LO Reference Frequency: External 100 MHz
- LO Reference Level: 0 dBm ± 5 dB

Output RF Power and Linearity
- Eq. Sat. Power, $P_{SAT}$/channel: 72W (48.6 dBm)
- Max CW Power, $P_{MAX}$/channel: 50W (47 dBm)
- Linear Power, $P_{LIN}$/channel: 32W (45 dBm)

Linearity
- Noise Power Ratio @ $P_{LIN}$: -3.9 dB
- Spectral Regrowth @ $P_{LIN}$: -30 dBc max
- (QPSK, OQPSK @ 1SR offset)
- Intermodulation Products @ $P_{LIN}$: -25 dBc max
- AM to PM Conversion: 2.0°/dB max

Gain
- Small Signal (typical): 65 dB ±5 dB
- Gain Attenuation Range: 20 dB, 0.1 dB steps
- Gain Variation (over any 1 GHz): 2.0 dB p-p max
- Gain Stability, over 24 hours: 1.0 dB p-p max
- Gain Variation over Temp: 2.0 dB p-p max

Noise and Spurious
- Noise Power Transmit Band: -75 dBW/4 kHz
- Noise Power Receive Band: -150 dBW/4 kHz
- AC Line Spurious sum of all spurs: -30 dBc
  single sideband sum: -36 dBc
- Harmonics: -60 dBc
- Output Spurious @ $P_{LIN}$ (excludes 1 MHz band): -65 dBc

Phase Noise with Optional BUC
- Phase Noise (max)
  - 100 Hz: -75 dBc/Hz
  - 1 kHz: -85 dBc/Hz
  - 10 kHz: -95 dBc/Hz
  - 100 kHz: -95 dBc/Hz
  - 1 MHz: -120 dBc/Hz
- Reference Phase Noise (max)
  - 10 Hz: -90 dBc/Hz
  - 100 Hz: -140 dBc/Hz
  - 1 kHz: -165 dBc/Hz

Phase Linearity and VSWR
- Transmit Phase Linearity up to $P_{LIN}$
  - over any 2 MHz: ±0.2 radian
  - over any 36 MHz: ±0.4 radian
  - over any 72 MHz: ±0.5 radian
  - over any 90 MHz: ±0.6 radian
  - over any 120 MHz: ±0.7 radian
- Input VSWR: 1.3:1
- Output VSWR: 1.3:1

Prime Power/Environment/Interfaces
- 90-264 VAC Prime Power: 800 @ $P_{LIN}$
- Operating Temp Range: -40° to +60°C
- Non-Operating Temp Range: -50° to +70°C
- Altitude (max): 12,000 ft. MSL
- Humidity: 100% condensing
- Shock/Vibration: Normal transportation

Weight and Dimensions
- Weight: 28 lb (12.7 kg)
- Dimensions: 7.8” x 10.5” x 13.8” (19.7cm x 26.7cm x 35.1cm)

For additional information visit: www.xicomtech.com
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