



**50W Ka-Band SSPA BUC
for SATCOM Application**

MODEL: UC-30A031A0-4750



INTERFACE

External Reference Input:

Frequency 10 MHz
Connector 50 Ohm SMA Female

Remote Monitor and Control:

Interface ETHERNET

Power Supply:

Voltage 115V/750W max (and 220V).

MECHANICAL

The radio is suitable for outdoor use in severe and mobile environments.

Dimensions 18" x 14.75" x 6.1"
Weight 31 lbs.

ENVIRONMENTAL

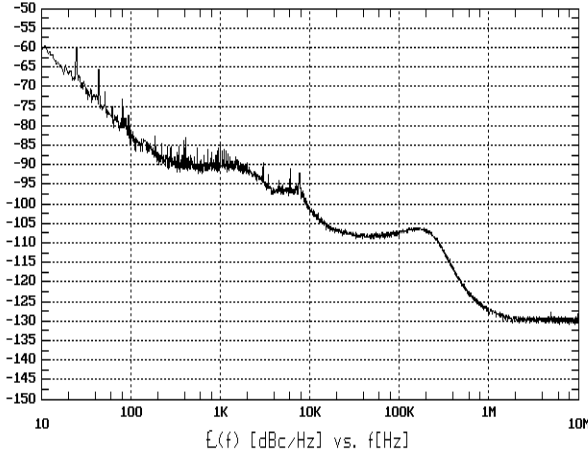
Operating Temperature: -40 to +60 °C

Specifications are Subject to Change without Notice

E & OE

SND61501 Ka-Band BUC with External Reference E8267C Input

HP 3048A Carrier: 29.625E+09 Hz 1/31/06 16:14:03 - 16:22:20



PERFORMANCE

The transmitter provides a frequency translation of an L-band input to a Ka-band output. It features high linearity, low phase noise performance and high linear power.

Transmitter Characteristics:

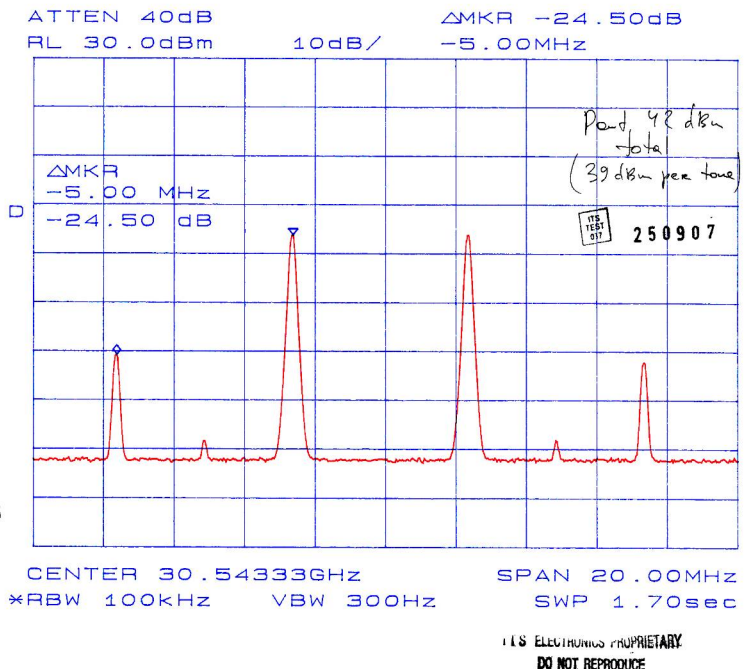
Output Freq. 30.0 to 31.0GHz (other options available)
Input Freq. 1000 to 2000MHz (other options available)
Gain Range 50±2dB
Gain Variation <±1.5 dB ptp over temperature
Gain Flatness <±0.3dB ptp over 30MHz
Output P1dB >47dBm (50W)
Group Delay Variation <3 ns ptp max. over 30MHz
Output Mute 60 dB min.
Output Phase Noise Independent from the 10MHz input reference.
10dB lower than Intelsat 308/309 from 10 Hz to 1 MHz

Internal Reference Characteristics:

The transmitter automatically operates from its internal reference when the external reference is not present.

Frequency Stability ±2 x 10⁻¹⁰ /day
Frequency Variation ±1 x 10⁻⁷ over -30 to 60 °C

STANDARDS: Compliant with MIL-STD 188-164A



Response, Innovation, Craftsmanship

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