



## 25W Linear Ka-Band Upconverter/SSPA for SATCOM™ Application

**MODEL: UC-29A531A0-4450**



**INTERFACE**

**EXTERNAL REFERENCE INPUT:**

Frequency            **10 MHz**  
Connector           **50 Ohm SMA Female**

**REMOTE MONITOR AND CONTROL:**

Interface             **Serial RS-422/485**

**POWER SUPPLY:**

Voltage               **115V/800W max.**

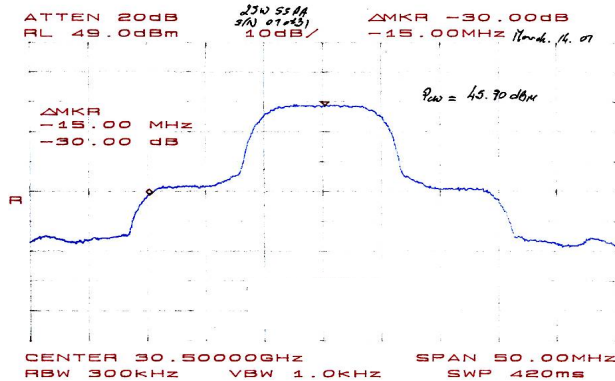
**MECHANICAL**

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

Dimensions           **18" x 14.75" x 6.3"**  
Weight                **31 lbs.**

**ENVIRONMENTAL**

Operating Temperature:   **-40 to +60 °C**



**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:**

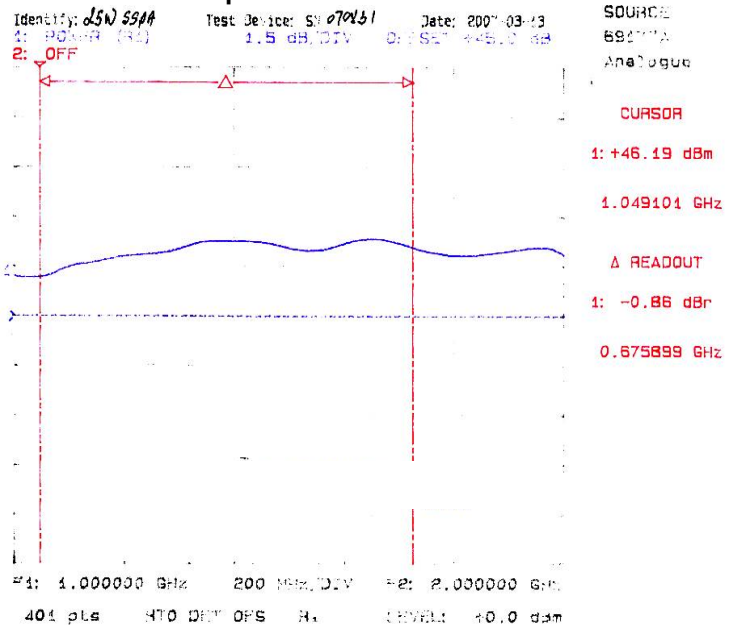
Output Freq.           **29.5 to 31.0GHz**  
Input Freq.           **1000 to 2000MHz (other options available)**  
Gain Range             **55±2dB**  
Gain Variation        **<±1.5 dB ptp over temperature**  
Gain Flatness         **<±0.3dB ptp over 30MHz**  
Linear Output Power   **>44.8dBm (30W)**  
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 that 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<sup>-10</sup> /day**  
Frequency Variation   **±1 x 10<sup>-7</sup> over -30 to 60 °C**

**STANDARDS: Compliant with MIL-STD 188-164A**



ITS Electronics Inc. Proprietary Information  
Specifications are Subject to Change without Notice  
**E & O E**

**Response, Innovation, Craftsmanship**

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