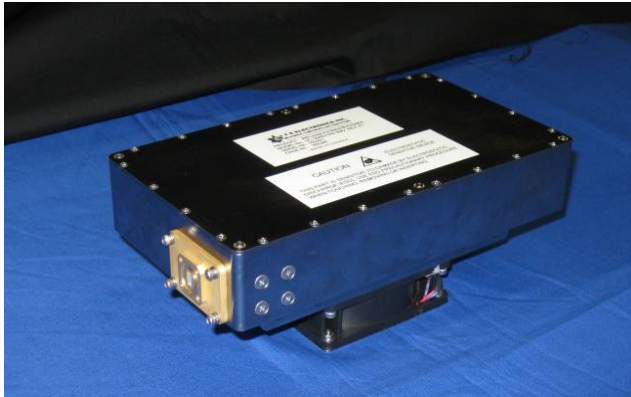




**4W Ka-Band Solid State Power Block Up-Converter**



**MODEL: UC-30A031A0-3955**

**PERFORMANCE**

**TRANSFER CHARACTERISTICS:**

Gain Range	55.0±3.0 dB
Gain Variation	±1.5 dB ptp over temperature
Gain Flatness	±1.5 dB ptp over full bandwidth
P1dB	39.0 dBm (8W)
Plinear	36.0 dBm
IMD3 @ Plinear	-25.0 dBc
Spectral Regrowth, QPSK	-30.0 dBc @ 1.5XS.R. @ Plinear
Group Delay	0.4 ns over 36 MHz band
Mute	60.0 dB minimum
Spurious	-60.0 dBc
LO Leakage	-5 dBm
Phase Noise	Intelsat 308/309 from 10Hz to 1MHz

**INTERFACE**

**IF INPUT CHARACTERISTICS:**

Operating Frequency	1.0 to 2.0 GHz
Return Loss (50 Ohm)	14 dB
External Reference	10 MHz

**RF OUTPUT CHARACTERISTICS:**

Operating Frequency	30.0 to 31.0 GHz
Return Loss	18 dB

**REMOTE MONITOR AND CONTROL:**

Interface	Analog/Digital Voltages
Functions	Mute PLL/DRO Lock Temperature

**POWER SUPPLY:**

Voltage	+24 VDC
Consumption	<100 W

**CONNECTORS:**

RF Input	SMA Female
RF Output	WR-28
DC Power Input	MS27513T12F98P

**MECHANICAL**

Dimensions (LxWxH)	8.0" X 4.5" X 3.272"
Weight	4.75 lbs.

**ENVIRONMENTAL**

**OPERATING:**

Temperature	-40 to +60 °C
Humidity	Up to 100% Condensing
Altitude	10,000 Feet AMSL Maximum

**NON-OPERATING:**

Temperature	-40 to +70 °C
Altitude	55,000 Feet AMSL Maximum
Shock and Vibration	Normal handling by commercial carriers

Product available from 27.0 to 31.0 GHz in 1000MHz bandwidth.  
Special request, please contact [info@itselectronics.com](mailto:info@itselectronics.com)

Specifications are Subject to Change without Notice

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