

UC-400KU 400W HPA

TWT Based High Power Amplifier



Covering the need for a high powered amplifier above SSPA's cost effectiveness, Upcom Technologies' has released a line Travelling Wave Tube amplifiers. It based on time and field proven TWT and modular power supply technologies allowing for superior reliability and ease of field service ability.

- **COST EFFECTIVE HIGH POWER**
- **UNIVERSAL POWER INPUT**
- **FRONT PANEL CONTROL**
- **BUILT-IN REDUNDANCY SWITCHING**
- **MODULAR POWER SUPPLY DESIGN**
- **2 YEAR WARRANTY!**

Frequency Range:	13.75 to 14.50 GHz (other frequencies available)	Input VSWR:	1.30:1 max.
Output Power at the Flange:	375W, typical 350W, min.	Output VSWR:	2.00:1 max.
Intermod Products:	-24dBc at 7dB backoff	Load VSWR:	1.50:1 max.- spec. 2.00:1 max. - continuous
Spectral Regrowth (Single QPSK Signal):	meets -26dBc at 135W output	RF Connectors:	Input: N-type; rear panel Output: WR-75; rear panel Sample Port: N-type; rear panel
Amplifier Gain:	60dB min.	Display:	Vacuum Fluorescent Display
Gain Variation:	4dB max.	Control:	User Panel, RS-422/RS-485
Gain Slope:	.03 dB/MHz max.	Altitude:	Up to 10,000 ft (derate 2°C/1,000ft. above 3000ft)
Gain Stability:	.25 dB/24-hours	Temperature:	Operating Temperature: 0° to 50°C Storage Temperature: -40° to 70°
Gain Adjustment:	0-35dB	Shock and Vibration:	Equal to Mobile Van or Antenna Pedestal
AM-to-PM Conversion:	6°/dB at rated power	Cooling:	Built-in forced air, rear intake and rear exhaust
Harmonic Output:	-60dBc	AC Power:	99-255VAC, single-phase 50/60Hz, 1400VA
Residual AM	-50dBc to 4kHz max. 4kHz to 500 kHz -20 (1.15 + logF) (F in kHz) max. -85dBc above 500 kHz	Dimensions:	19"W 5.25"H 24"D @ 67lbs
Phase Noise:	meets limits 1 & 2 of IESS-308	Certification:	ETS 300/327
Noise and Spurious:	-65dBW/4kHz max.		
Group Delay:	Linear: .01 nSec/MHz Parabolic: .05 nSec/MHz (squared) Ripple: .50 nSec/MHz (peak-to-peak)		

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