



## Ku-Band 25/40 Watt Outdoor Transmitter

Model: UC-13A714A5-4443

***This Transmitter is designed to be part of the earth terminals for satellite communications.***

***Housed in a compact and lightweight outdoor enclosure, it provides frequency translation from L-band and delivers up to 25 Watts of Ku-band output power.( 40 W Option available)***

***Excellent phase noise and low microphonics make it suitable for mobile applications and compliant to satellite regulations globally.***

***Customized gain values, input/output frequency ranges and configuration options are available upon request.***



<b>IF Input:</b>	
Frequency range	950 to 1750 MHz
Connector	N-type female
Return Loss, at 50Ω	16 dB min
<b>Gain:</b>	
Adjustment range	43 dB min
Flatness, over 500 MHz range	down 20 dB min
Gain variation over temperature	±2.0 dB max
<b>RF Output</b>	
Frequency range	13.75 to 14.5 GHz
Connector	WR75 waveguide
Max Output Power P1dB ( <i>Opt.HP-40W</i> )	+44 dBm (25 Watt) min
Output IMD3 at 41 dBm total Pout	-25 dBc max
Spurious, in-band, signal related	-60 dBc max
Spurious, signal independent	-30 dBm max
<b>Output SSB Phase Noise:</b>	
@ 100 Hz	-63 dBc/Hz max
@ 1 kHz	-73 dBc/Hz max
@ 10 kHz	-83 dBc/Hz max
@ 100 kHz	-100 dBc/Hz max
<b>External Reference Requirements:</b>	
Frequency	10 MHz
<b>SSB Phase Noise:</b>	
@ 100 Hz	-135 dBc/Hz
@ 1 kHz	-145 dBc/Hz
@ 10 kHz	-150 dBc/Hz
Level	+3 dBm ±6 dB
<b>DC Power Requirements</b>	
<b>( AC input power – Opt. A1)</b>	
	10 V @ 20 A
	12 V @ 0.5 A
	5 V @ 0.5 A
	48 V @ 0.5 A
M&C interface	RS-485
Operational Temperature Range	-40 °C to +65 °C
Humidity	100% condensing
Size, with fan tray	12.5" x 5.6" x 9.5"
Weight	16 lbs max

Specifications are subject to change without notice  
E & O E

***Response, Innovation, Craftsmanship***

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To Order or for Technical Information

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