

# L Band to Tx Masthead Upconverters

Designed for Satcom test applications, the SUC Series of Masthead Converters from Atlantic Microwave offer a cost effective solution for converting from L Band to all common satcom uplink frequencies. All models incorporate fundamental frequency phase locked oscillators and double balanced mixers. The Converters are designed for remote mounting, with DC supplied on the L-Band RF input.

- Provides Uplink Test Signals
- L Band Input
- S, C, X, Ku, DBS, Ka and Q Band Output
- Weatherproof Enclosure
- High Stability Internal OCXO
- Good Phase Noise
- Various Mounting Options
- Custom Options Available



## General Specification

RF input Frequency (L Band)	800-2800MHz
RF Output Frequency	Model Specific in S to Q Band
Input/Output VSWR	1.8: typ.
Maximum RF Input	+10dBm
Maximum Conversion Loss	20dB (see options)
LO Stability	+/-1ppm over -10 to +50C
Operating Temperature	-10 to +50C
DC Supply	15-24V DC
Connector	N Type Female
RF Output Connector	Model Specific
Indicators	DC Supply and LO Lock (LEDs)
Housing	Outdoor, Weatherproof to IP65
Size	166 x 128 x 78mm approx. (excluding connectors and mounting brackets)



LO Phase noise dBc/Hz (typical)			
Offset Frequency (Hz)	Typical Output Frequency (GHz)		
	3	10	26
100Hz	-85	-75	-70
1KHz	-95	-85	-75
10KHz	-100	-90	-75
100KHz	-115	-90	-80
1MHz	-135	-120	-115
10MHz	-145	-130	-125

Options: OP01 0dB conversion Gain (Internal amplifier) OP02 Two Outputs OP03 Three Outputs OP04 Four Outputs OP05 30 dB Variable Attenuator OP06 60 dB Variable Attenuator OP07 30 dB Gain (min) OP08 40 dB Gain (min) OP09 Input Isolator (1.25:1 VSWR) OP10 Output Isolator (1.25:1 VSWR) OP11 Type N Female Connectors

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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