



ITS ELECTRONICS INC.

MICROWAVE COMPONENTS AND SUBSYSTEMS

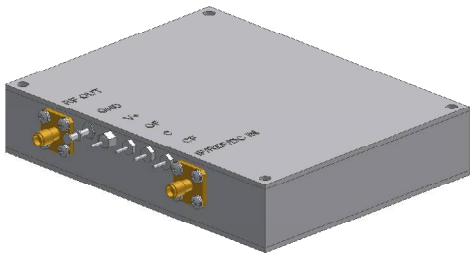
ISO 9001:2000 and SAE AS9100A Certified

Ku-Band Block Up Converter Module



This BUC provides frequency translation from an L-band IFL to Ku-band SSHPA in compact outdoor earth terminals for satellite communications.

Excellent phase noise and low microphonic performance make it compatible with modern modulations, suitable for mobile applications and compliant to satellite regulations globally.



[Other Models Available](#)

MODELS: UC-1414A5-08 and UC-13A7514A5-08

IF Input Frequency Range:	
model UC-1414A5-08	950 to 1450 MHz
model UC-13A7514A5-08	950 to 1700 MHz
RF Output Frequency Range:	
model UC-1414A5-08	14.00 to 14.50 GHz
model UC-13A7514A5-08	13.75 to 14.50 GHz
Internal LO Frequency:	
model UC-1414A5-08	13.05 GHz
model UC-13A7514A5-08	12.80 GHz
External Reference Frequency	10 MHz
External Reference Level	-10 to +10 dBm
Frequency Sense	No Inversion
Input and Output Return Loss	16 dB
Nominal Input Power	-28 to +4 dBm typ
Small Signal Gain	-8 dB min -4 dB max
Gain Flatness, over any 36 MHz	+/- 0.25 dB max
Input Power at 1 dB Compression	+8 dBm min
Noise Figure	20 dB max
In-band Spurious	-60 dBc max
SSB Phase Noise:	
@ 100 Hz Offset:	-63 dBc/Hz
@ 1 kHz Offset:	-73 dBc/Hz
@ 10 kHz Offset:	-83 dBc/Hz
@ 100 kHz Offset:	-100 dBc/Hz
@ 1 MHz Offset:	-120 dBc/Hz
Phase Lock Fault Alarm	Form C contacts
Power Requirements	+10 to +18 VDC, 500 mA max
Operating Temperature Range	-40 to +75 °C
Size, excluding connectors	4.50" x 3.50" x 1.00"
Connectors:	
IF/REF/DC IN and RF OUT	SMA female
DC IN and ALARM	feedthroughs
Weight	1.2 lbs

E & OE

Specifications Subject to Change without Notice

ITS Proprietary Information

Response, Innovation, Craftsmanship

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To Order or for Technical Information

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