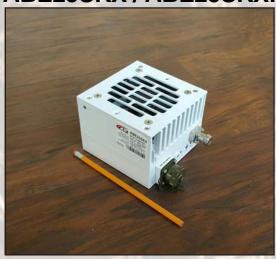


25 W Ext. Ku-Band Block Up Converter

KEY FEATURES

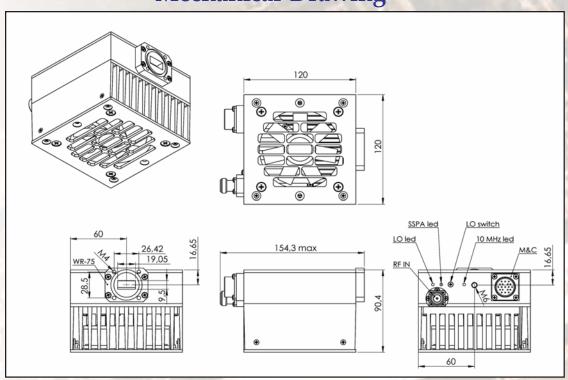
- Output frequency 13.75-14.50 GHz
- Smallest and lightest
- Double L.O. (electronically and manually switchable (12.80 / 13.05 GHz)
- Auto-ranging 15-60 VDC
- Incomparable Low power consumption (120W max)
- Digital temperature compensation
- Amplifier, L.O. and 10 MHz Reference Status LEDs
- Field-exchangeable (F/N) IF connector
- M&C combined RS-232/485/FSK (optional)
- Internal 10MHz high stability 10-8 reference (optional)
- Ethernet control (optional)
- Three-year warranty
- RoHS compliant

ABE25SKX / ABE25SKXF



This smallest and lightest 25W L-To Ku-Band Block Up Converter is designed to be mounted on a feed horn. The unit is ideal for portable and mobile applications. Double – L.O. feature makes unit universal for Ku-Band requirements. It is powered either with 24 or 48 VDC and consumes less than 120W.

Mechanical Drawing





25 W Ext. Ku-Band Block Up Converter

TECHN	ICAL SPECIFICATIONS
RF frequency	14.00 to 14.50 GHz
	13.75 to 14.50 GHz
Local oscillator- electronically and is switchable	manually 13.05 GHz and 12.80 GHz
IE fraguency	950 to 1,700 MHz
IF frequency Output power	25W (43.5 dBm min, 44 dBm typ.)
Output power	13W P-Linear (41 dBm min.)
IF connector	N-type or F-type (field-exchangeable)
Power supply- auto-ranging	+15~+60 VDC via IF cable, 120 W max
Internal 10MHz high stability referer	nce 10 ⁻⁸
Output interface	WR-75 G
Gain variation over 40 M	
over 500	
Over operating temperature	± 1.5 dB p-p @ fixed frequency
Gain	65 dB min., 68 dB nominal
IMD3 (3dB back off rated output po	111111111111111111111111111111111111111
L.O. leakage	-45 dBm max
Spurious	-53 dBc max
Requirement for external reference	via IF cable
frequency	10MHz (sine-wave)
Phase noise input power	-5 to +5 dBm @ input port
Phase noise	-55 dBc/Hz max. @ 10 Hz
(Exceeds Intelsat's standard IES	-65 dBc/Hz max. @ 100 Hz
(=	-73 dDc/112 max. @ 1 KHZ
	-85 dBc/Hz max. @ 10 KHz
	-95 dBc/Hz max. @ 100 KHz
	-115 dBc/Hz max @ 1 MHz
M&C	RS-232 and RS-485, Ethernet
FSK	Multiplexed on TX IFL, compatible with Comtech and Paradigm
Noise figure	20 dB max
Input V.S.W.R.	2:1 max
Output V.S.W.R.	2:1 max.
Mute	Shut off the BUC in case of L.O. unlocked
Status LED	MARKE
Amplifier RED	Summary alarm
GREEN L.O. YELLOW	All OK All OK standard L.O. 13.05 GHz
YELLOW YELLOW blinki	
10 MHz GREEN	External 10MHz reference
GREEN blinkin	
RED	No 10MHz reference detected
Temperature range (ambient)	MAG (13)
operating	-40 deg C to +55 deg C
storage	-55 deg C to +85 deg C
Dimensions & housing	120 (L) x 120 (W) x 90.4 (H) mm
Dimensions a neasing	4.72" (L) x 4.72" (W) x 3.61" (H)
	7.12 (L) A 4.12 (VV) A J.U1 (II)