GaN Based Product



80W Insat 6.725-7.025 GHz C-Band BUC

KEY FEATURES

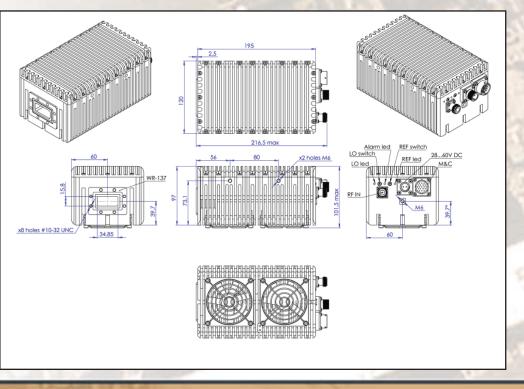
- Output frequency 6.725-7.025 GHz
- Based on GaN technology which enables high efficiency, low power consumption and high reliability.
- L.O. 5.76 GHz
- Incomparable low power consumption (350W max)
- Advanced M&C interface combined RS-232/485, Ethernet (HTTP and SNMP ver. 2 and 3) and optional FSK
- Auto-ranging 36 60 VDC powering option
- Digital temperature compensation
- Power and lock status LED
- Field-exchangeable (F/N) IF connector
- Internal 10MHz high stability reference (optional)
- RoHS compliant

Mechanical Drawing

ABC80IC / ABC80ICF



This smallest and lightest 80W L-To C-Band Block Up Converter is based on GaN technology. It is designed to be mounted on the feed horn. The unit covers C-Band sub-band Insat (6.725-7.025 GHz)



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80W Insat 6.725-7.025 GHz C-Band BUC

RF frequency	6.725 to 7.025 GHz	
Local oscillator	5.76 GHz	
F frequency	965 to 1,265 MHz	
Dutput power	80W (+49 dBm min.) 45.5W (+46.5 dBm min.) P-Linear	
IF connector	N-type or F-type (field-exchangeable)	
Power supply : auto-ranging via MS connector	+36 ~ +60 VDC, 350W max.	
Dutput interface	CPR 137 G	
Gain	67 dB min., 75 dB max. Adjustable in 1dB steps, Gain range 20dB	
MD3 (two tones)	-26 dBc max. 2 signal 5 MHz apart at P-LINEAR	
O. leakage	-45 dBm max.	
Spurious	-50 dBc max.	
Spectral regrowth (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power)	-30 dBc	
Requirement for external reference: frequency input power	via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port	
TX Gain variation TX Gain stability over temperature range	± 0.5 dB over 40 MHz ± 1.8 dB over full band ± 1.5 dB typ., ± 1.8 dB max.	
Phase noise	-55 dBc/Hz max. @ 10 Hz	
(Exceeds Intelsat's standard IESS308/309)	-65 dBc/Hz max. @ 100 Hz	
	-75 dBc/Hz max. @ 1 KHz	
	-85 dBc/Hz max. @ 10 KHz	
	-95 dBc/Hz max. @ 100 KHz	
	-115 dBc/Hz max. @ 1 MHz	
Noise power density Transmit Receive	-66 dBm/Hz (max.) -157 dBm/Hz (max.)	
FSK	Multiplexed on TX IFL, compatible with Compech and Paradigm	
N&C Interface	RS-232, RS-485 and Ethernet (HTTP and SNMP ver.2 and 3)	
Noise figure	15 dB max.	
nput V.S.W.R.	1.5 : 1 max.	
Dutput V.S.W.R.	1.5 : 1 max.	
Nute	Shut off the HPA if L.O. unlocked	
Status LED Amplifier RED GREEN L.O. GREEN 10MHz GREEN GREEN blinking RED	Summary alarm All OK All OK L.O. is set to 5.76 GHz External 10MHz reference Internal 10MHz reference No 10MHz reference detected	
Temperature range (ambient) operating storage	-40 deg C to +55 deg C -55 deg C to +85 deg C	
/ibration and shock	Complies with MIL-STD-810E	
Altitude	Up to 23,000 feet	
P rating	IP67	
Dimensions & housing	195 (L) x 120 (W) x 101.5 (H) mm 7.67" (L) x 4.72" (W) x 3.99" (H)	9