GaN Based Product



8W Ext. Ku-Band Block Up Converter

KEY FEATURES

- Output frequency 13.75 14.50 GHz
- Based on GaN technology which enables high efficiency, low power consumption and high reliability.
- Double- L.O. (switchable 12.80 & 13.05 GHz)
- Incomparable low power consumption (47W max)
- Advanced M&C interface combined RS-232/485, Ethernet (HTTP and SNMP ver. 3) and optional FSK
- Auto-ranging 15-60 VDC powering option
- Digital temperature compensation
- Power and lock status LED
- Built-in redundancy option
- Field-exchangeable (F/N) IF connector
- Internal 10MHz high stability reference (optional)
- RoHS compliant

ABE8KXHM / ABE8KXHMF



This smallest and lightest 8W L-To Ku-Band Block Up Converter is based on GaN technology. Double L.O. and field- Exchangeable connector make unit universal for any Ku-Band application. Incomparable low power consumption allowes the BUC to be powered by iDirect and similar modems. Internal 10MHz reference option enables using the BUC with the modems without 10MHz reference.

Mechanical Drawing

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8W Ext. Ku-Band Block Up Converter

	40.75 44.50 011-
F frequency	13.75 - 14.50 GHz
	12.80 and 13.05 GHz
⁻ frequency	950 to 1,700 MHz
Dutput power	8W (+39 dBm min.)
F connector	N-type or F-type (field-exchangeable)
ower supply : auto-ranging via IF connector	+15 VDC ~ +60 VDC, 47W max.
Output interface	WR 75 G
ain	62 dB nominal
MD3 (two tones)	-26 dBc max. 2 signal 5 MHz apart at P-LINEAR
.O. leakage	-45 dBm max
purious	-50 dBc max
pectral regrowth QPSK at 1.5x and OQPSK at 1.0x symbol rate offset ith 2dB back-off from rated output power)	-30 dBc
equirement for external reference: frequency input power	via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port
X Gain variation X 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.
hase noise	-53 dBc/Hz max. @ 10 Hz
(Exceeds Intelsat's standard IESS308/309)	-63 dBc/Hz max. @ 100 Hz
	-73 dBc/Hz max. @ 1 KHz
	-83 dBc/Hz max. @ 10 KHz
	-93 dBc/Hz max @ 100 KHz
	-113 dBc/Hz max @ 1 MHz
loise power density Transmit Receive	-66 dBm/Hz (max) -157 dBm/Hz (max)
ѕк	Multiplexed on TX IFL, compatible with Comtech and Paradigm
I&C Interface	RS-232, RS-485 and Ethernet (HTTP and SNMP ver. 3)
oise figure	15 dB max
nput V.S.W.R.	1.5 : 1 max
output V.S.W.R.	1.5 : 1 max.
lute	Shut off the HPA if L.O. unlocked
tatus LED RED GREEN YELLOW YELLOW blinking	Summary alarm All OK All OK standard L.O. 13.05 GHz All OK extended L.O. 12.80 GHz
emperature range (ambient)	40 deg C to 155 deg C
operating	-40 deg C to +55 deg C
storage	-55 deg C to +85 deg C
ibration and shock	Complies with MIL-STD-810E
imensions & housing	140 (L) x 120 (W) x 69.5 (H) mm
	5.51" (L) x 4.72" (W) x 2.78" (H)
Veight	1.2 kg (2.6 lbs) max