Norsat International Inc.

Innovative Communication Solutions

BUC-100334

Up Converter L Band

KEY SPECIFICATIONS

Band	L-Band
Conversion Scheme	Dual conversion, no frequency inversion
External Ref Freq	10 MHz, -3 to +3 dBm via BNC-Connector (50 Ω)
IF Frequency	70 MHz
Input Frequency Band 1	70 ± 18 MHz
Internal Back-up Reference	Frequency: 5 or 10 MHz sine-wave Level: -5 to +5 dBm Modes: auto/extern/intern Connector: BNC-Connector (50 Ω)
Output Frequency Band 1	950 - 1750 MHz

RF SPECIFICATIONS

Am/pm Conversion	0.1°/dB at max. conversion gain
Attenuator Range	0 to 30 dB, stepped 0.1 dB
Conversion Gain	+40 dB ±1.0 dB at max. conversion gain
Frequency Resolution	100 Hz
Gain Flatness (over ±20mhz)	±0.25 dB
Gain Slope Equalizer	±0.0625 dB/MHz max., adjustable
Gain Stability	±0.25 dB/day at constant temperature
Gain Stability (over Temperature)	±0.5 dB max., ±0.2 dB typ.
Group Delay	Linear: 0.015 ns/MHz max. Parabolic: 0.005 ns/MHz^2 max. Ripple: 2 ns peak to peak max.
Harmonics	< -40 dBc at max. conversion gain, Pout = 0 dBm
Image Rejection	> 80 dB
Input Return Loss	> 15 dB
MW LO Test Output	6.12 - 7.32 GHz, -7 ±3 dBm, SMA-Connector
Noise Figure	< 12 dB at max. conversion gain
Oip3	> 20 dBm at max. conversion gain
Operational Input Level	-40 dBm at max. conversion gain
Output Muting	> 60 dB (by command or sense input or by alarm condition)
Output P1db	> 10 dBm at max. conversion gain
Output Return Loss	> 15 dB
Phase Noise 0.01khz Offset Max	-64 dBc/Hz
Phase Noise 0.01khz Offset Typ	-67 dBc/Hz
Phase Noise 0.1khz Offset Max	-77 dBc/Hz

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Phase Noise 0.1khz Offset Typ	-80 dBc/Hz
Phase Noise 1khz Offset Max	-87 dBc/Hz
Phase Noise 1khz Offset Typ	-90 dBc/Hz
Phase Noise 10khz Offset Max	-92 dBc/Hz
Phase Noise 10khz Offset Typ	-95 dBc/Hz
Phase Noise 100khz Offset Max	-97 dBc/Hz
Phase Noise 100khz Offset Typ	-100 dBc/Hz
Phase Noise 1000khz Offset Max	-122 dBc/Hz
Phase Noise 1000khz Offset Typ	-125 dBc/Hz
RF Monitor	Signal level in ref. to output: -20 dB approx. Connector: SMA-Connector
Spurious	Signal Related: < -60 dBc at max. conversion gain, Pout = 0 dBm Signal Independent: < -70 dBm

ELECTRICAL SPECIFICATIONS

Fuse	2 x 2.0 A, time-lag fuse
Power Consumption	40 VA max. / 25 W max.
Power Requirements	100 - 240 VAC nom., 90 - 264 VAC max., 50 - 60 Hz

INTERFACE SPECIFICATIONS

Alarm	Two potential free contacts (DPDT), connector DSUB09 female
Input Connector	BNC-Connector
M&c Interface	**Protocol:** SNMP **Connection:** UDP over Ethernet (10 or 100 Mbps, auto sensing), connector RJ-45 **Protocol:** HTTP (web browser interface) **Connection:** TCP/IP over Ethernet (10 or 100 Mbps, auto sensing), connector RJ-45 **Protocol:** Multipoint **Connection:** RS232 or RS422/RS485 (configurable), connector DSUB09 female or TCP/IP over Ethernet (10 or 100 Mbps, auto sensing), connector RJ-45
Output Connector	SMA-Connector
Power Connector	IEC C14
User Interface	LCD-Display 2 x 40 characters, 4 cursor keys, 4 function keys

ENVIRONMENTAL SPECIFICATIONS

Relative Humidity	< 95 % non condensing
Temperature Operational	0°C to +50°C
Temperature Storage	-30°C to +80°C

PHYSICAL SPECIFICATIONS

Product Height	44 mm
Product Length	505 mm
Product Weight	Approx. 8.4 kg

Product Width	483 mm

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in Germany	Richmond, BC, Canada	EAR99	|

MECHANICAL DIAGRAMS