



20W Ka-Band Block Up-Converter

MODEL: UC-30A031A0-4256

The BUC features high output power.



CONVERTER CHARACTERISTICS:

Input Freq.	1.0 to 2.0 GHz
Output Freq.	30.0 to 31.0 GHz
Gain Range	55 dB min
Gain Variation	±1.5 dB ptp over temperature
Gain Flatness	±1.5 dB over full band
Group Delay	0.4nsec over 36 MHz band
Output P1dB	42 dBm (16W)
IMD (per carrier)	
4.5dB below P1dB	-16 dBc
7.5dB below P1dB	-22 dBc
10.5dB below P1dB	-29 dBc
Spec. Mask	
QPSK@1.5xSR	23dBc @ P1dB
AM/PM Cov.	3.5°/dB @ P1dB
Output Mute	60 dB min.
LO Leakage	-25 dBm
Input VSWR	1.5:1
Output VSWR	1.3:1
Noise Density	
29.0-31.5 GHz	-100 dBm/Hz
17.7-21.2 GHz	-120 dBm/Hz
Spurious	-60 dBc
Harmonics	-50 dBc
Int 10 MHz Ref.	
Type	OCXO
Stability over temp.	1e-8
Aging per year	1e-7
Input pwr level	-4 to 10 dBm
Ext 10 MHz Ref.	Diplexed on IF Input
Int/Ext Reference	Auto-detect
10 MHz Ref. Output	2±3dBm

INTERFACE:

IF Input	SMA(F)
RF Output	WR-28
Ref Output	SMA(F)
Power Conn	MIL-26482
M&C Conn	MIL-26482

REMOTE MONITOR AND CONTROL:

Interface	RS-422 or Ethernet
M&C Functions	Mute
	PLL/DRO Lock
	Fwd Pwr (13dB)
	Temp.
	Ref. Fault

POWER SUPPLY:

Voltage	6.75V±0.25V
Power Con.	162W

MECHANICAL:

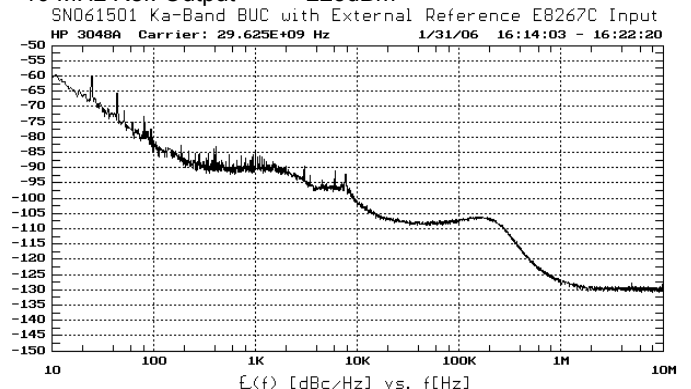
Dimensions	7.3"x4.6"x2.9"
Weight	<5 lbs.

ENVIRONMENTAL:

Operating	
Baseplate Temp:	-40 to +70 °C
Storage	
Temp:	-54 to +70 °C

Specifications are Subject to Change without Notice

E & O E



Response, Innovation, Craftsmanship

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