



UP Converter DBS Outdoor

TECHNICAL SPECIFICATIONS

ELECTRICAL

Input frequency range	950-2.050 Mhz
Output frequency range	17.3-18.4 GHz
Gain	30 dB
Gain Flatness	<2 dB p-p
Gain variation over temperature	±0.5 dB over full operating range
Attenuation Adjustment Range	20 dB in 0,25 dB step
Input VSWR	≤1.5:1
Output VSWR	≤1.3:1
P1dB	15 dBm
Spurious	-60 dBc max @ 5 dBm
Harmonics	≤60 dBc
Phase noise	-65 dBc/Hz at 100 Hz, -75 dBc/Hz at 1 kHz, -85 dBc/Hz at 10 kHz, -95 dBc/Hz at 100 kHz
External reference frequency and phase noise	10 MHz, 0 dBm ±3 dB (TX IF port multiplexed) -135 dBc/Hz at 100 Hz, 144 dBc/Hz at 1 kHz, -155 dBc/Hz at 10 Hz

POWER SUPPLY

Input Voltage	90-264 VAC, 50-60 Hz
Power Consumption	50 W

MECHANICAL & INTERFACES

Dimensions (L x W x H)	380 x 320 x 65 mm
Weight	7 kg
Interfaces	
RF Input	Type N
RF Output	k(f) - 2.92
Monitor Control	MIL-C-26482-I compatible, Size 14, 19 pins female
Power supply	MS3112E12-3P

MONITOR & CONTROL PARAMETERS

Remote control	RS-485 or Ethernet (option)
Hardware control	OL, Ref, Mute, Output detection (On/Off), Sum alarms
Monitor parameters	Input Power, Output Power, Temperature
Thermal shutdown control threshold	+85 °C

ENVIRONMENTAL

Operating Temperature	-30 °C to +55 °C
Storage Temperature	-40 °C to +85 °C
Humidity	100 %, condensing



Key Features

- Outdoor Operation

Options

- Internal reference
- Extended temperature range:
T1 (-40 °C to +55 °C)
T2 (-40 °C to +60 °C)
- Redundant configurations (1:1, 1:2)

Up converter module with different versions to operate in DBS band.

Designed to be installed close to outdoor GaN SSPA units. It provides information about input and output power levels as well as temperature of the module.