

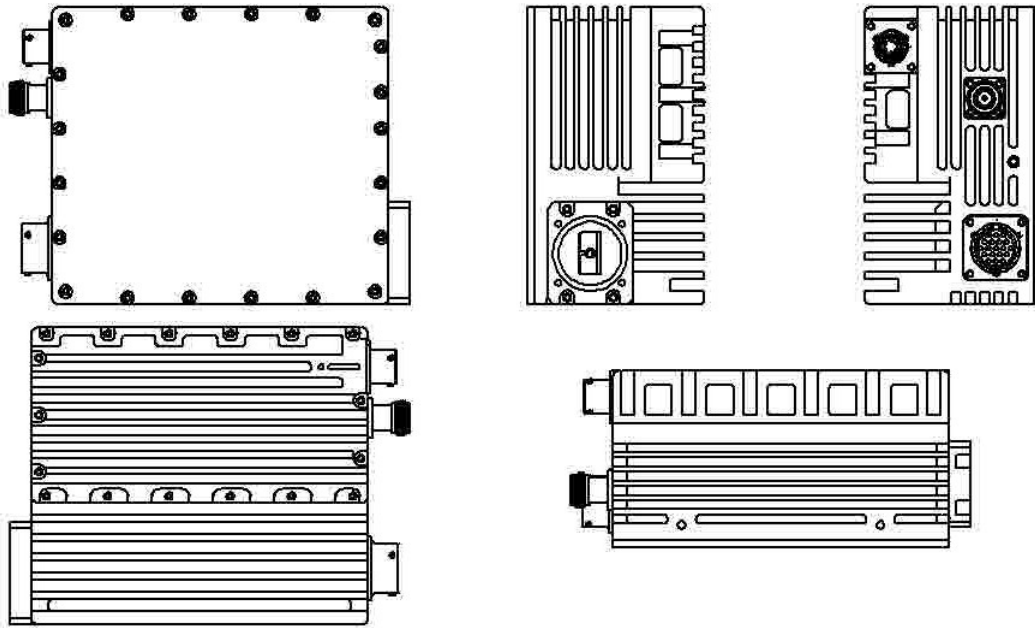


Fanless 8-12-16W Ku-Band BUC

Powered by GaN technology the fanless series are revolutionary in size, weight and power density. The fanless version offers superior performance, thermal efficiency and high reliability in an extremely compact package. Weighing at only 2.75kgs, our fanless GaN BUC is exceptionally powerful for its size: up to 16W Psat. Built in Isolated DC power supply provides the customer with the feed-from-a battery solution. Fanless BUC features best in class RF characteristics, built in output circulator, extensive monitor and control capabilities enabled via Ethernet, Serial and/or Analog Interfaces. The BUC's remarkably small size and low power consumption results in better heat extraction that allows its operation at passive (convection) cooling, which eliminates fan - least reliable and most maintenance-requiring component of any BUC. Its small size and weight allows direct feed horn mounting, which makes it a most economical solution for fixed and mobile VSAT applications

FEATURES

- Up to 16W Output Power in this super-compact light weight package 14.5 x 13.5 x 10cms only!
- High thermal efficiency resulting in fanless package
- Only 130W Power consumption at 16W output
- RF Monitor Port Optional
- Superior RF performance:
 - High Linearity
 - Spurious below -60dBc
 - Wide dynamic range of Gain Control
- Output power measurement
- Built In output isolator provides full output VSWR Protection
- Configuration packet protocol RS-485 - User friendly HTTP based GUI and SNMP
- VDC isolated power supply
- Field upgradable software
- Status LED



Parameter	8W	12W	16W
RF Performance			
RF Frequency Ranges-Available in/switched	13.75-14.50GHz		
IF Frequency Range	950-1700MHz		
LO Frequency	12.8GHz		
Rated Power	39dBm nom	41dBm nom	42dBm nom
Plinear	36dBm nom	38dBm nom	39dBm nom
Gain	69dB min, 72dB typ		
Gain Flatness	+/-1dB typ +/-1.5dB max over full band; +/-0.4dB max over any 40MHz		
Gain Stability	+/-1.5dB over full temperature range		
Gain Control	20dB min dynamic range with 0.1dB step		
External Reference Frequency	10MHz multiplexed with IF In		
External Reference Required Phase Noise	-130dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz -155dBc/Hz @ 100kHz		
Up-Converter Phase Noise	-68dBc/Hz @ 100Hz -80dBc/Hz @ 1kHz -90dBc/Hz @ 10kHz -95dBc/Hz @ 100kHz -115dBc/Hz @ 1MHz		
Linearity: 2 tone IMD	-24dBc at P linear		
Spectral Re-growth	-30dBc for QPSK at 1.5 x symbol rate at P linear		
Noise Power Density: Transmit Band	-85dBm/Hz max		
Receive Band	-140dBm/Hz max		
Output Spurious: Non-signal related	-65dBc		
Signal related	-60dBc		
RF Monitor (Optional)	-40dBc nom		
Power			
48V DC Voltage Range	36-72VDC Isolated / 18-36VDC Isolated (optional)		
Power Consumption at 3dB back off / Rated Power	75W/90W	85/110W	90W/120W
Mechanical			
Size	14.5x13.5x10cms		
Weight	2.75KG		
Cooling	Forced Air		
Operating temperature	-40°C to +55°C		
Relative Humidity	Up to 100% condensing		
Interfaces			
IF Input Connector	N-type female		
RF Output Connector	WR75 grooved		
RF Monitor (optional)	SMA female		
DC Power In	MS3112E12-3P		
RS485-RS232-Ethernet-SNMP	MS3112E14-19S		