

60-80W X-BAND ONE-BOX-DESIGN BUC



SATELLITE COMMUNICATIONS

EVEN MORE POWER FOR YOUR BUC

The new generation of Mitec VSAT Block Up-Converters comes with an integrated BUC/Booster package and designed for high efficiency resulting in an optimal compact form factor and lightweight with high performance and reliability. With the advanced customer interface and HTTP embedded web page, the operator is able to monitor and control the BUC and the System Redundancy from a web browser.



KEY FEATURES

- Compact size and light weight
- Best in Class efficiency with less than 480W draw for 60W RF Output and 575W draw for 80W RF Output
- Easy to install
- High thermal dissipation efficiency resulting in "Best in Class" Mean Time Before Failure (MTBF)
- Superior phase noise, 5 dB better than IESS 308 /309
- 1:1 switching logic built into the BUC eliminating expensive external controller
- Built-in facilities for critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- HTTP Hosting
- SNMP
- TELNET through TCP/IP
- RS485, RS232, Ethernet and Dry-Contacts M&C interface

YOUR DAILY EXPERIENCE POWERED BY MITEC

SALES@MITECTELECOM.COM | WWW.MITECTELECOM.COM | 1-514-694-9000



60-80W X-BAND BUC

TRANSMIT CHARACTERISTICS	60 W	80 W
Output Frequency Range	7.90 – 8.40 GHz	
Input Frequency Range	950 – 1450 MHz	
Conversion Type	Single fixed L.O.: 6.95 GHz	
RF Output at 1 dB GCP	47.8 dBm min.	49 dBm min.
Small Signal Gain	75 dB min	75 dB min
User Adjustable Gain	20 dB in 0.1 steps	
TX Gain Stability over temperature range	+/- 2 dB max	
TX Gain Variation at fixed temperature	+/- 2 dB over full band, +/- 0.5 dB over 40 MHz	
Intermodulation	-25 dBc max. @ 3 dB Back-Off from P1 dB	
10 MHz Reference (via IF Connector)	0 dBm +/- 0.5 dB, (internal reference optional)	
L.O. Phase Noise	-35 dBc/Hz max @ 10Hz, -65 dBc/Hz max @ 100 Hz, -75 dBc/Hz max @ 1 KHz, -85 dBc/Hz max @ 10 KHz, -95 dBc/Hz max @ 100 KHz, -105 dBc/Hz max @ 1 MHz	
Output Spurious	-60 dBc	
Receive Band Noise Power Density	-80 dBm/Hz without Rx Receive Filter -140 dBm/Hz with Rx Reject Filter	
Input IF Impedance	50 Ohms (75 Ohms optional)	
Power Requirements	90-265 VAC, 48 VDC	
Power Consumption (at rated power)	480W	575W

INTERFACE

Output Interface	Waveguide, WR112-G (Grooved)
Input Interface	N-type, female, 50 Ohms, (IF/10 MHz)
AC or DC Power Connector	MS Connector
M&C (RS485/RS232/Ethernet)	MS Connector
RF Sample Port	N-type, female

MECHANICAL

Cooling	Forced Air
Dimensions (L x W x H)	12.5" x 7.2" x 7.0" (317.5mm x 182.88mm x 177.80mm)
Weight	16.5 lbs (7.5 kg)

ENVIRONMENTAL

Temperature Range (Ambient)	-40° to +55° C (operating); -40° to +75° C (storage)
Humidity	0 to 100% (condensing)
Altitude	10000 ft ASL
Rain	20 inches per hour
Wind	150 miles per hour

ORDERING INFORMATION

BUC with external reference, AC Power	MTX-79848-75-ES-50	MTX-79849-75-ES-50
BUC with internal reference, AC Power	MTX-79848-75-ES-57	MTX-79849-75-ES-57
BUC with external reference, DC Power	MTX-79848-75-ES-40	MTX-79849-75-ES-40
BUC with internal reference, DC Power	MTX-79848-75-ES-47	MTX-79849-75-ES-47

YOUR DAILY EXPERIENCE POWERED BY MITEC

SALES@MITECTELECOM.COM | WWW.MITECTELECOM.COM | 1-514-694-9000

217567-001PD Rev. 0 12/09

