



MODEL MBUC14125S50A
13.75GHz~14.5GHz
100 WATTS
Block Up-Converter

FEATURES:

- Integrated BUC for Better Performance & Reliability
- Monitoring & Controlling through RS485(Optional Ethernet)
- Tricolour LED Status Indicator to Identify BUC Status Instantly

ELECTRICAL SPECIFICATIONS

Parameter		Specifications	
Input Characteristic			
Frequency Range (MHz)	950 ~1700		
Impedance (Ω)	50		
Input VSWR	2:1		
Interface	N-type Connector		
Output Characteristic			
Frequency Range (GHz)	13.75~14.5 (LO= 12.8)		
Output Power P-1 (dBm) Typ	50		
Interface	WR-75G		
Transfer Characteristics			
Frequency Sense	Non-inverted		
Linear Gain	75 dB typ		
Gain Variation	Over the Whole Bandwidth	±2.5 dB typ	
	Over Operation	±2.5 dB typ	
Spurious	-55 dBc typ		
Intermodulation Product	-25 dBc typ (3dB total back-off from Output P-1dB power)		
Phase Noise (typ)	100Hz	-63 dBc/Hz	
	1kHz	-73 dBc/Hz	
	10kHz	-83 dBc/Hz	
	100kHz	-93 dBc/Hz	
Miscellaneous			
Internal Reference Frequency Stability Over Temperature	±0.02 ppm		
External Reference Input	Frequency	10MHz	
	Power	-5 to 5 dBm (Unit will automatically switch to internal reference if external reference level falls below -10 dBm nominal)	
	Phase Noise	-135dBc/Hz@100Hz max. -145dBc/Hz@1kHz max. -155dBc/Hz@10kHz max.	
M&C Function (Optional) Interface	RS-485 (Optional Ethernet)		
Attenuator Range	20dB Variable, Step size of 0.5dB		



LED Function	Green: Normal, Red: Fault, Blue: PA Off
Command Function	PA On/Off, Gain Control, Out-of-lock Alarm, Temperature, Summary Alarm
Internal Function	Lock detector shuts off Tx in case of LO unlocked

Operating Power Requirement

Parameter	Specifications
Operating Voltage	85 ~265VAC, 50Hz
Power Consumption (Watts) Typ	900

Environmental Conditions

Parameter	Specifications
Operating Temperature	-40°C to +60°C
Humidity	0 to 100%
Water proof/ Dust proof	IP54

Mechanical

Parameter	Specifications
Dimensions (L x W x H)	TBD
Weight	TBD

Schematic

