



MODEL MBUC14125S53A

13.75GHz~14.5GHz

200 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		53
Interface		WR-75G
Transfer Characteristics		
Frequency Sense	Non-inverted	
Linear Gain		78 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	1600

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

