MODEL MBUC11700S50B
OUTPUT: 10.7~12.7 GHz
100 Watt
KU-BAND BLOCK UP-CONVERTER

Advantages:

- Integrated BUC for Better Performance & Reliability
- Monitoring & Controlling
- Tricolour LED Status Indicator to Identify BUC Status Instantly

ELECTRICAL SPECIFICATIONS

Parameter		Specifications	
IF Frequency Range		2~4 GHz	
Output Frequency Range		10.7~12.7 GHz	
LO Frequency		8.7 GHz	
Saturated Output Power		50 dBm (Typ)	
Power Gain @ Pin=-15dBm		65 dB (Typ)	
Power Gain Flatness		±1 dB (Typ)	
Small Signal Gain @Pin=-40dBm		75 dB (Typ)	
Small Signal Gain Flatness @Full band		±2.5 dB (Typ)	
Gain Variation @Over Temperature		±1 dB (Typ)	
IM3 @Pout = 47dBm (two tones, 5MHz)		≤-25 dBc	
Spurious		-60dBc (Typ)	
TX Noise Density		≤-76dBm/Hz	
RX Noise Density		≤-156dBm/Hz	
Gain control Range		20dB Variable, Step size of 0.25dB	
Phase Noise	100Hz	≤-65 dBc/Hz	
	1kHz	≤-75 dBc/Hz	
	10kHz	≤-85 dBc/Hz	
	100kHz	≤-95 dBc/Hz	
	1MHz	≤-105 dBc/Hz	
Input VSWR		1.5:1 (typ)	
Output VSWR		≤1.3:1, With external output isolator	
Input/Input Impedance		50 Ω	
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 Interface		Ethernet (default) , Optional RS485/232	
LED Function		Green: Normal, Red: Fault, Blue: PA Off	
Command Function		PA On/Off, Gain Control, Out-of-lock Alarm, Temperature, Over- VSWR Protection, Summary Alarm	

Protection and Warning Function

No	Specifications
1	Unlock protection/ Warning
2	Over-current protection/ Warning
3	Over-voltage protection/ Warning
4	Over-temperature protection/ Warning
5	Over-reflection protection/ Warning

Interface

Parameter	Specifications	Connector model
IF/ REF IN	IF/ REF input	SMA
RF OUT	RF Output	WR-75
Forward Coupled Output	Forward Coupled Output	SMA
M&C	LAN	Circle Connector
Power AC 220V	Power supply	Circle Connector

Operating Power Requirement

PIN	Specifications
Operating Voltage	180~230VAC, 220VAC (Typ) 50Hz
Power Consumption	400 Watts (Typ)

Environmental Conditions

PIN	Specifications
Operating Temperature	-40°C to +60°C
Storage Temperature	-50°C to +70°C
Humidity	0 to 95%
Water proof/ Dust proof	IP66

Mechanical

Parameter	Specifications
Dimensions (L x W x H)	244 x 136 x 136(mm)
Weight	5.5kg
Paint	RAL7035(GRAY)

Absolute Maximum Ratings

Parameter	Specifications
IF input power	≤5dBm
Load VSWR @RF OUT	VSWR≤5:1(assured by design)
Thermal Degradation	85℃ @ heatsink