



# ELMTBKU050HT-EF

## ELEMENT 50W Ku-Band MINIBUC (High Temperature Range)

**Input Frequency:** 13.75 - 14.50 GHz

**Connector:** F-Connector

**M&C Function:** No M&C Function



### KEY SPECIFICATIONS

Band	Ku-Band
External Ref Freq	10 MHz, -5 to +5 dBm
Input Frequency Band 1	950 - 1700 MHz
Output Frequency Band 1	13.75 - 14.50 GHz
Output Power Rated	50W
Reference Type	Internal Reference

### RF SPECIFICATIONS

Gain Flatness (over 54mhz)	1.5 dB
Gain Flatness (over Full Band)	4 dB
Gain Flatness (over Temperature)	4 dB
Input VSWR	2 : 1 max.
Linear Gain	72 dB typ.
Output P1db	+47 dBm typ. / +46 dBm min. over temperature
Output Spurious In Band	-60 dBc
Output Spurious Out Of Band	-50 dBc
Output VSWR	2 : 1 max.
Phase Noise 100khz Offset Max	-95 dBc/Hz
Phase Noise 10khz Offset Max	-85 dBc/Hz
Phase Noise 1khz Offset Max	-75 dBc/Hz

### ELECTRICAL SPECIFICATIONS

Current Consumption	390W max.
Power Requirements	+36 to +60V DC





## INTERFACE SPECIFICATIONS

Frequency Sense	Non-inverted
RF Input Connector	F-Connector

## ENVIRONMENTAL SPECIFICATIONS

Humidity	Up to 100%
IP Rating	IP 55
Temperature Operational	-40 to +55°C
Temperature Storage	-40 to +60°C

## PHYSICAL SPECIFICATIONS

Internal Function	Lock detector shuts off Tx in case of LO unlocked
Product Dimensions (LxWxH)	245 x 125 x 125 mm
Product Weight	4 kg

## LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8543700000	Made in Korea	Korea	EAR99	290 x 270 x 250 mm   4.5 kg

## HOW TO ORDER

### ELMTB KU050HT-EF-E

ELEMENT SERIES	B: BUC	KU: Ku-Band	POWER 050: 50W	M&C FUNCTION	CONNECTOR	FREQUENCY	OPERATING TEMPERATURE	REFERENCE
				BLANK: Opt-out E: Ethernet M: RS-232 & RS-485	F: 75 Ohm N: 50 Ohm	S: 14.00 - 14.50 GHz (Standard) E: 13.75 - 14.50 GHz (Extended) A: 12.75 - 13.25 GHz (Band A)	BLANK: -40 to 55°C T: -40 to 60°C	BLANK: External Reference H: Internal Reference

## MECHANICAL DIAGRAMS





Norsat  
International Inc.

## Innovative Communication Solutions

