



# ELMTBKU040T-SN-E

## ELEMENT 40W Ku-Band EXT REF MINIBUC (High Temperature Range)

Input Frequency: 14.00 - 14.50 GHz

Input Connector: N-Connector

M&C Function: Ethernet



### KEY SPECIFICATIONS

|                         |                      |
|-------------------------|----------------------|
| Band                    | Ku-Band              |
| External Ref Freq       | 10 MHz, -5 to +5 dBm |
| Input Frequency Band 1  | 950 - 1450 MHz       |
| LO Frequency 1          | 13.05 GHz            |
| Output Frequency Band 1 | 14.00 - 14.50 GHz    |
| Output Power Rated      | 40W                  |
| Reference Type          | External 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                      | +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     | -140 dBc/Hz max.              |
| Phase Noise 1khz Offset Max      | -135 dBc/Hz max.              |

### ELECTRICAL SPECIFICATIONS

|                     |           |
|---------------------|-----------|
| Current Consumption | 390W max. |
|---------------------|-----------|





Power Requirements

+36 to +60V DC

## INTERFACE SPECIFICATIONS

Frequency Sense

Non-inverted

IF Connector

N-Connector

## ENVIRONMENTAL SPECIFICATIONS

Humidity

Up to 100%

IP Rating

IP 55

Temperature Operational

-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 KU040HT-EF-E**

ELEMENT SERIES

B: BUC

KU: Ku-Band

POWER  
040: 40W

M&C FUNCTION

BLANK: Opt-out  
E: Ethernet  
M: RS-232 & RS-485

CONNECTOR

F: 75 Ohm  
N: 50 Ohm

FREQUENCY

S: 14.00 - 14.50 GHz (Standard)  
E: 13.75 - 14.50 GHz (Extended)  
A: 12.75 - 13.25 GHz (Band A)

OPERATING  
TEMPERATURE

BLANK: -40 to 55°C  
T: -40 to 60°C

REFERENCE

BLANK: External Reference  
H: Internal Reference

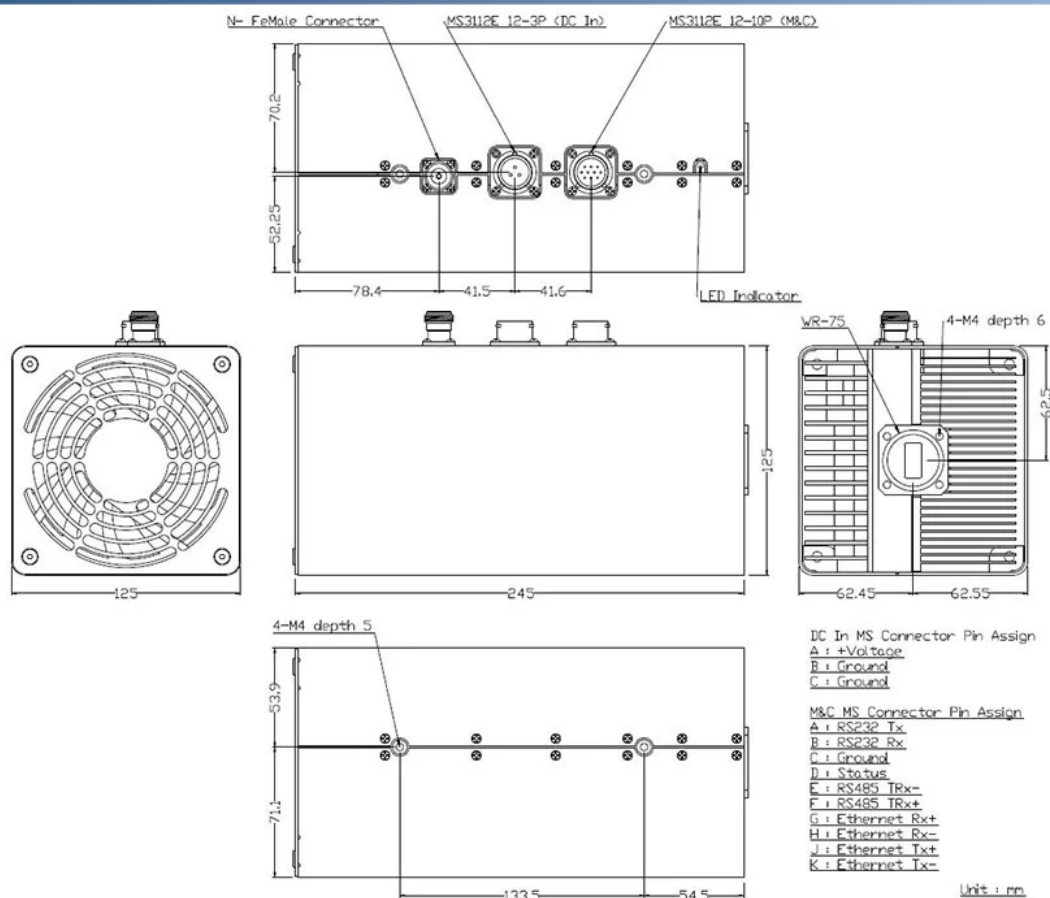
## MECHANICAL DIAGRAMS





Norsat  
International Inc.

## Innovative Communication Solutions



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