

# ELMTBC100HT-IN-AE

## ELEMENT 100W C-Band BUC (High Temperature Range)

**Input Frequency:** 6.725 - 7.025 GHz

**Input Connector:** N-Connector

**Input Voltage + M&C Function:** 85-265 VAC + Ethernet



## KEY SPECIFICATIONS

Band	C-Band
External Ref Freq	10 MHz, -5 to +5 dBm
Input Frequency Band 1	975 - 1275 MHz
LO Frequency 1	5.75 GHz
Output Frequency Band 1	6.725 - 7.025 GHz
Output Power Rated	100W
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	80 dB typ.
Output P1db	+50 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	650W max.
Power Requirements	+85 to +265V AC

### INTERFACE SPECIFICATIONS

Frequency Sense	Non-inverted
IF Connector	N-Connector

### ENVIRONMENTAL SPECIFICATIONS

Humidity	Up to 100%
IP Rating	IP 54
Temperature Operational	-40 to +60°C
Temperature Storage	-40 to +75°C

### PHYSICAL SPECIFICATIONS

Internal Function	Lock detector shuts off Tx in case of LO unlocked
Product Dimensions (LxWxH)	235 x 190 x 145 mm
Product Weight	7.5 kg (+1.0 kg mounting jig)

### 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   8.5 kg

### HOW TO ORDER

## ELMTBC100HT-SF-AE

<b>ELEMENT SERIES</b>	<b>C: C-Band</b>	<b>B: BUC</b>	<b>POWER 100: 100W</b>	<b>M&amp;C FUNCTION</b>	<b>BLANK:</b> Opt-out <b>E:</b> Ethernet <b>M:</b> RS-232 & RS-485
				<b>INPUT VOLTAGE</b>	<b>A:</b> AC Power Option <b>D:</b> DC Power Option
				<b>CONNECTOR</b>	<b>F:</b> 75 Ohm <b>N:</b> 50 Ohm
				<b>FREQUENCY</b>	<b>S:</b> 5.850 - 6.425 GHz (Standard) <b>P:</b> 6.425 - 6.725 GHz (Palapa) <b>I:</b> 6.725 - 7.025 GHz (Insat) <b>W:</b> 5.850 - 6.725 GHz (Wide)
				<b>OPERATING TEMPERATURE</b>	<b>BLANK:</b> -40 to 55°C <b>T:</b> -40 to 60°C
				<b>REFERENCE</b>	<b>BLANK:</b> External Reference <b>H:</b> Internal Reference

### MECHANICAL DIAGRAMS





**Norsat**  
International Inc.

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