



# ELMTBC050T-SF-D

## ELEMENT 50W C-Band EXT BUC (High Temperature Range)

**Input Frequency:** S: 5.850 - 6.425 GHz  
**Input Connector:** F-Connector  
**Input Voltage + M&C:** 36-60 VDC + No M&C  
**Function:** Function



### KEY SPECIFICATIONS

Band	C-Band
External Ref Freq	10 MHz, -5 to +5 dBm
Input Frequency Band 1	950 - 1525 MHz
LO Frequency 1	4.9 GHz
Output Frequency Band 1	5.850 - 6.425 GHz
Output Power Rated	50W
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	73 dB typ.
Output P1db	+47 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	290W DC max.
Power Requirements	+36 to +60V DC

### INTERFACE SPECIFICATIONS

Frequency Sense	Non-inverted
IF Connector	F-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)	220 x 195 x 138 mm
Product Weight	6.0 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   8.5 kg

### HOW TO ORDER

## ELMTBC050HT-SF-AE

<b>ELEMENT SERIES</b>	<b>C: C-Band</b>	<b>POWER 050: 50W</b>	<b>M&amp;C FUNCTION</b>	<b>BLANK:</b> Opt-out <b>E:</b> Ethernet <b>M:</b> RS-232 & RS-485
	<b>B: BUC</b>		<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.

**Innovative Communication Solutions**



