

ELMTBC050HT-IN-DE

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

Input Frequency: I: 6.725 - 7.025 GHz

Input Connector: N-Connector

Input Voltage + M&C Function: 36-60 VDC + 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	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	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	-85 dBc/Hz
Phase Noise 1khz Offset Max	-75 dBc/Hz



ELECTRICAL SPECIFICATIONS

Current Consumption	290W DC 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 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

ELEMENT SERIES	C: C-Band	POWER 050: 50W	M&C FUNCTION	BLANK: Opt-out E: Ethernet M: RS-232 & RS-485
	B: BUC		INPUT VOLTAGE	A: AC Power Option D: DC Power Option
			CONNECTOR	F: 75 Ohm N: 50 Ohm
			FREQUENCY	S: 5.850 - 6.425 GHz (Standard) P: 6.425 - 6.725 GHz (Palapa) I: 6.725 - 7.025 GHz (Insat) W: 5.850 - 6.725 GHz (Wide)
			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



