



ELMTBC100-WF-AM

ELEMENT 100W C-Band EXT REF BUC

Input Frequency: 5.850 - 6.725 GHz

Input Connector: F-Connector

Input Voltage + M&C: 85-265 VAC + RS-232 & RS-485

Function: RS-485



KEY SPECIFICATIONS

| | |
|-------------------------|----------------------|
| Band | C-Band |
| External Ref Freq | 10 MHz, -5 to +5 dBm |
| Input Frequency Band 1 | 950 - 1825 MHz |
| LO Frequency 1 | 4.9 GHz |
| Output Frequency Band 1 | 5.850 - 6.725 GHz |
| Output Power Rated | 100W |
| Reference Type | External Reference |

RF SPECIFICATIONS

| | |
|----------------------------------|-------------------------------|
| Gain Flatness (over 54mhz) | 1.5 dB |
| Gain Flatness (over Full Band) | 5 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 | -55 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 | 650W max. |
| Power Requirements | +85 to +265V AC |

INTERFACE SPECIFICATIONS

| | |
|-----------------|--------------|
| Frequency Sense | Non-inverted |
| IF Connector | F-Connector |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|--------------|
| Humidity | Up to 100% |
| IP Rating | IP 54 |
| Temperature Operational | -40 to +55°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

| | | | | | |
|-----------------------|------------------|---------------|------------------------|------------------------------|---|
| ELEMENT SERIES | C: C-Band | B: BUC | POWER 100: 100W | M&C FUNCTION | BLANK: Opt-out E: Ethernet M: RS-232 & RS-485 |
| | | | | 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



Esatcom Inc
Norsat authorized distributor
www.esatcom.com

Tel
718.276.0800

Email
sales@esatcom.com

