

#### **Innovative Communication Solutions**

# ELMTBC100HT-WN-

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

Input Frequency: 5.850 - 6.725 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 1 950 - 1825 MHz

LO Frequency 1 4.9 GHz

Output Frequency Band 1 5.850 - 6.725 GHz

**Output Power Rated** 100W

Reference Type Internal Reference

#### RF SPECIFICATIONS

Gain Flatness (over 54mhz) 1.5 dB

Gain Flatness (over Full Band) 5 dB 4 dB

Gain Flatness (over Temperature)

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 -85 dBc/Hz

Phase Noise 1khz Offset Max -75 dBc/Hz





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#### **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 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)

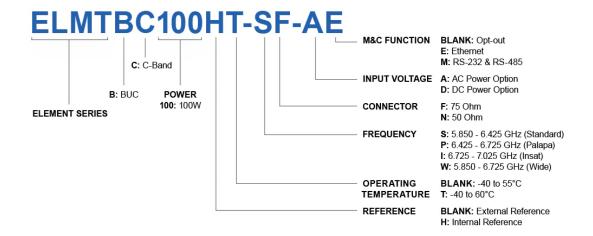
#### LOGISTICS SPECIFICATIONS

| HS Code    | Country of Origin | Ex Works | ECCN Number | Unit Package                   |
|------------|-------------------|----------|-------------|--------------------------------|
| 8543700000 | Made in Korea     | Korea    | EAR99       | 290 x 270 x 250 mm  <br>8.5 ka |

-40 to +60°C

#### **HOW TO ORDER**

**Temperature Operational** 



#### **MECHANICAL DIAGRAMS**





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