



# BUC

## KA-BAND 16W

### ELMTBKA016

#### ELEMENT SERIES



### SPECIFICATIONS

<b>Output Power (P<sub>sat</sub>)</b>	42 dBm min.
<b>Plinear*</b>	39 dBm min.
<b>Phase Noise (SSB) max.</b>	-73 dBc/Hz at 1 kHz -83 dBc/Hz at 10 kHz -93 dBc/Hz at 100 kHz -103 dBc/Hz at 1 MHz
<b>Linear Gain</b>	65 dB typ., 60 dB min., 70 dB max.
<b>Gain Flatness:</b>	<b>Over Full Band</b> ≤ 4.0 dB p-p <b>Over Any 40 MHz</b> ≤ 1.0 dB p-p <b>Over Temperature</b> ≤ 3.0 dB p-p
<b>Output Spurious:</b>	<b>In-Band</b> ≤ -55 dBc <b>Out-of-Band</b> ≤ -55 dBc
<b>Noise Power Density</b>	-70 dBm/Hz in Tx -157 dBm/Hz in Rx
<b>Input VSWR</b>	2.0 : 1 max.
<b>Output VSWR</b>	2.5 : 1 max.

\*as per MIL-STD 188

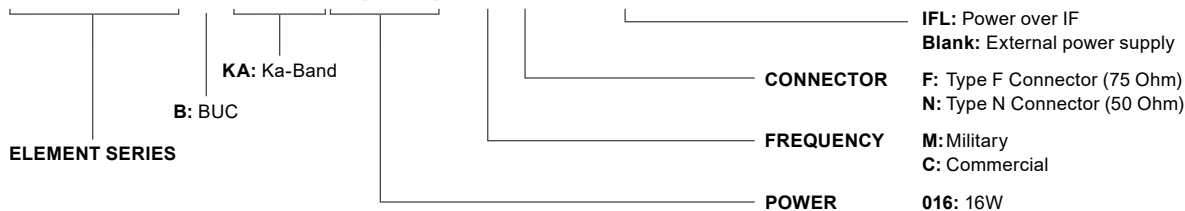
<b>Input Voltage</b>	+28V to +72V DC
<b>Power Consumption</b>	120W max.
<b>Power Connector</b>	MIL-26482 Series 1 receptacle Shell Size 12, 4 Pins PT02E-12-4P
<b>Input (waterproof)</b>	Type F Connector (75 Ohm) Type N Connector (50 Ohm)
<b>Output</b>	WR-28 waveguide grooved
<b>Dimensions (L x W x H)</b>	168 mm x 108 mm x 78 mm (6.61 in x 4.24 in x 3.08 in)
<b>Weight</b>	1.5 kg (3.31 lb)
<b>Operating Temperature</b>	-40 to +60°C
<b>Storage Temperature</b>	-50 to +70°C
<b>Humidity</b>	8-100% condensing
<b>External Ref Freq</b>	10 MHz (sine-wave), -5 to +5 dBm
<b>Enclosed Accessories</b>	Screws, Gasket, Mating Connectors for Power and M&C
<b>Protection Rating</b>	IP55

### FREQUENCY BANDS

	<b>C: Commercial</b>	<b>M: Military</b>
<b>Transmit Frequency (GHz)</b>	29.0 - 30.0	30.0 - 31.0
<b>L.O. Frequency (GHz)</b>	28.05	29.05
<b>IF Frequency (MHz)</b>	950-1950	950-1950

### HOW TO ORDER

## ELMTBKA016-MF-IFL





## KA-BAND 16W BUC: ELMTBKA016

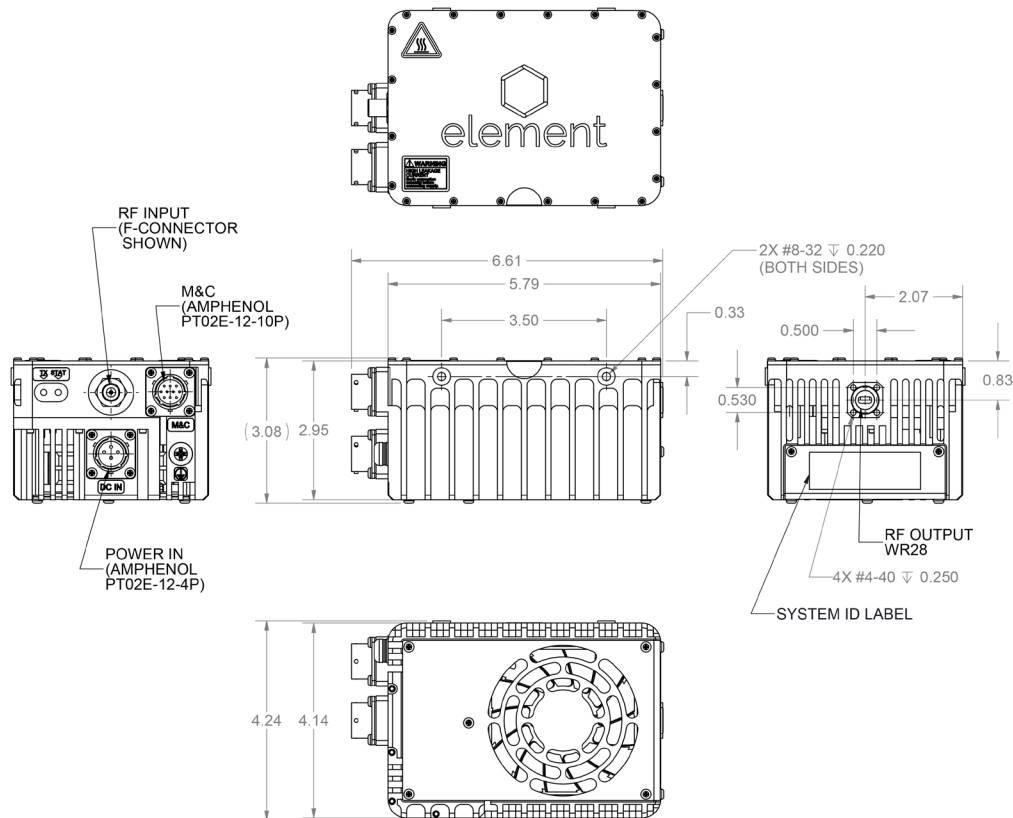
### MONITOR & CONTROL

<b>M&amp;C Interface</b>	RS-485 & RS-232
<b>M&amp;C Connector:</b>	MIL-26482 Series 1 receptacle Shell Size 12, 10 Pins PT02E-12-10P
<b>Mute Control:</b>	Fully configurable (mute enable: high or low, mute default: enabled or disabled)
<b>Low</b>	0.0 - 0.8V
<b>High</b>	3.0 - 5.0V

### OPTIONAL ACCESSORIES

<b>Power Supply</b>	PS300-AT1-(NA/UK/EU/IEC)
<b>M&amp;C Cable (10m)</b>	CABLEM+C-AT10
<b>DB9 to USB Adaptor</b>	USB-RS485

### MECHANICAL DIAGRAM



Esatcom Inc  
Norsat authorized distributor

Tel  
718.276.0800

Email  
sales@esatcom.com