



BUC

CUSTOMIZABLE KA-BAND ELEMENT SERIES FOR LEO NETWORK



SPECIFICATIONS

Output Power (P_{sat})	41 dBm min.	Input Voltage	+28V to +72V DC
Plinear*	38 dBm min.	Power Consumption	110W max.
Phase Noise (SSB) max.	-73 dBc/Hz at 1 kHz -83 dBc/Hz at 10 kHz -93 dBc/Hz at 100 kHz -103 dBc/Hz at 1 MHz	Power Connector	MIL-26482 Series 1 receptacle Shell Size 12, 4 Pins PT02E-12-4P
Linear Gain	65 dB typ., 60 dB min., 70 dB max.	Input (waterproof)	Type F Connector (75 Ohm) Type N Connector (50 Ohm)
Gain Flatness:	Over Full Band ≤ 4.0 dB p-p Over Any 40 MHz ≤ 1.0 dB p-p Over Temperature ≤ 3.0 dB p-p	Output	WR-28 waveguide grooved
Output Spurious:	In-Band ≤ -55 dBc Out-of-Band ≤ -55 dBc	Dimensions (L x W x H)	168 mm x 108 mm x 78 mm (6.61 in x 4.24 in x 3.08 in)
Noise Power Density	-70 dBm/Hz in Tx -157 dBm/Hz in Rx	Weight	1.5 kg (3.3 lb)
Input VSWR	2.0 : 1 max.	Operating Temperature	-40 to +60°C
Output VSWR	2.5 : 1 max.	Storage Temperature	-50 to +70°C
<small>*as per MIL-STD 188</small>		Humidity	8-100% condensing
		External Ref Freq	10 MHz (sine-wave), -5 to +5 dBm
		Enclosed Accessories	Screws, Gasket, Mating Connectors for Power and M&C
		Protection Rating	IP55

STANDARD FREQUENCY BANDS

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

CUSTOMIZABLE FREQUENCY BANDS

- Selectable frequency range from 27.5GHz -31.0 GHz
- Customize tuning with 50KHz Increments
- Single Band covering up to 1 GHz

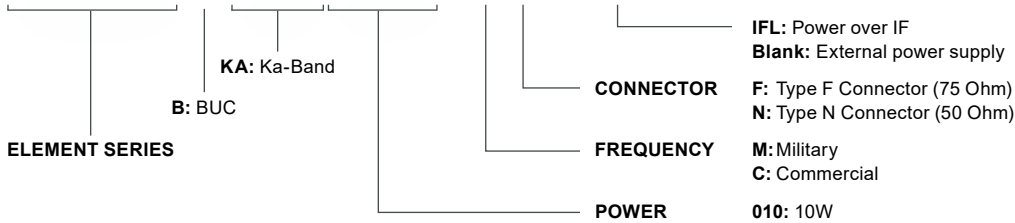
*Multi-Band available in ATOM Series



KA-BAND 10W BUC: ELMTBKA010

HOW TO ORDER

ELMTBKA010-MF-IFL



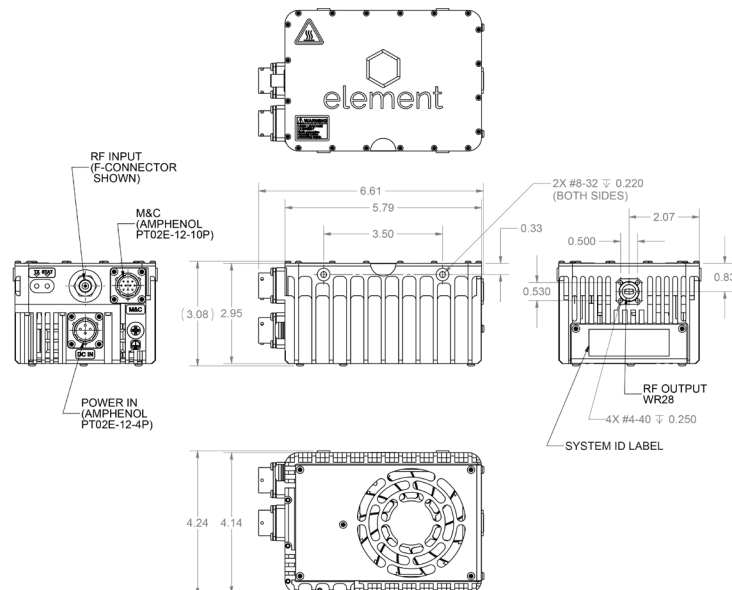
MONITOR & CONTROL

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

OPTIONAL ACCESSORIES

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

MECHANICAL DIAGRAM



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