

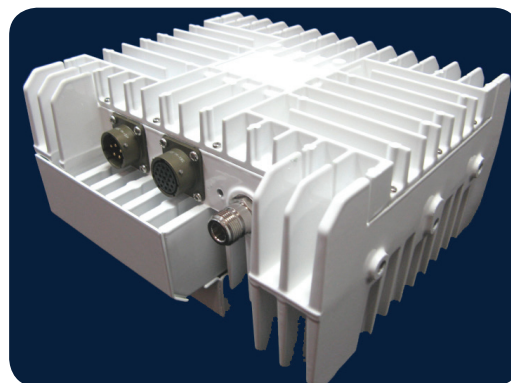


BUC

ELEMENT SERIES

KU-BAND 20W

BUC-ELMTKU020



NORSAT ELEMENT SERIES BUCS

Norsat Satellite Communication solutions are renowned for their high quality, reliability, and innovation. The Ku ELEMENT series offers small size and weight with a variety of frequency options that make it ideal for VSAT applications.

Stock units are available in standard and extended Ku-Band frequencies. Special order units are available in a wide variety of additional frequencies from 10.38 – 10.55GHz up to 17.7 -18.1 GHz.

FREQUENCY BANDS

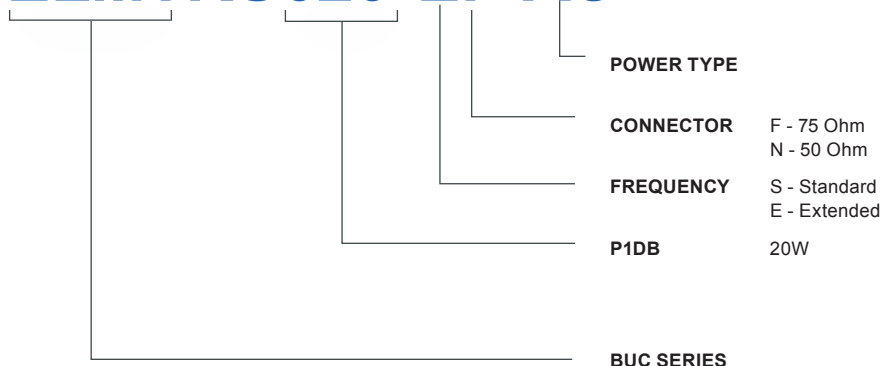
Model	BUC-ELMTKU020-S	BUC-ELMTKU020-E
Output frequency (Mhz)	14.0 – 14.5 GHz	13.75 – 14.5 GHz
L.O. frequency (GHz)	13.05 GHz	12.80 GHz
Input frequency (GHz)	950 – 1450 MHz	950 – 1700 MHz

KEY FEATURES

- GaN Technology
- High linearity
- 18 frequency options
- RoHS Compliant

HOW TO ORDER

BUC-ELMTKU020-EF-AC



KU-BAND 20W BUC-ELMTKU020

RF SPECIFICATIONS

Output Power (P1dB)	43 dBm typ.
External Reference	10MHz
Reference Power Level	-5 dBm to +5dBm
Phase Noise (SSB)	-60 dBc/Hz at 100Hz -70 dBc/Hz at 1kHz -80 dBc/Hz at 10kHz -90 dBc/Hz at 100KHz
Gain	72 dB typ.
Gain flatness	+/-4.0 dB p-p, max over full band +/- 1.5dB p-p over 54MHz
Gain variation over temperature	+/-4.0 dB p-p over operating range
Gain variation over 24hrs	+/-0.5 dB max at constant temp
Intermodulation	-25 dBc
Spectral Regrowth (typical)	-30 dBc
AM/PM Conversation (up to 2 dB below rated Output Power)	2 deg/dB
Max Input Power without damage	13 dBm
Output Spurious -In Band	-60 dBc
-Out Band	-50 dBc
Noise power density	-90 dBm/Hz in Tx -156 dBm/Hz in Rx

ENVIRONMENTAL & PHYSICAL

Temperature (operational)	-40 C to +55 C
Humidity (operational)	0 – 100% condensing
Dimensions (L x W x H)	220 x 195 x 136 mm (DC) 220 x 195 x 181 mm (AC)
Weight	5 kg (DC) 6 kg (AC)
Enclosed Accessories	O-Ring (1 pc) Screws (4 pc)

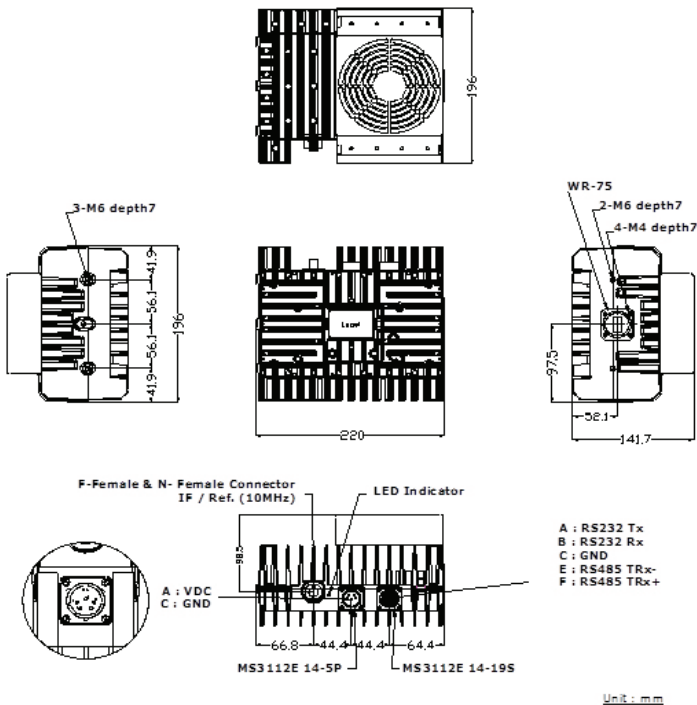
POWER

Power requirements	+36 to +60 VDC (DC) + 85 to 265 VAC (AC)
Power Consumption	180W (DC) 200W (AC)
Power Connector	MS3112E 14-5P

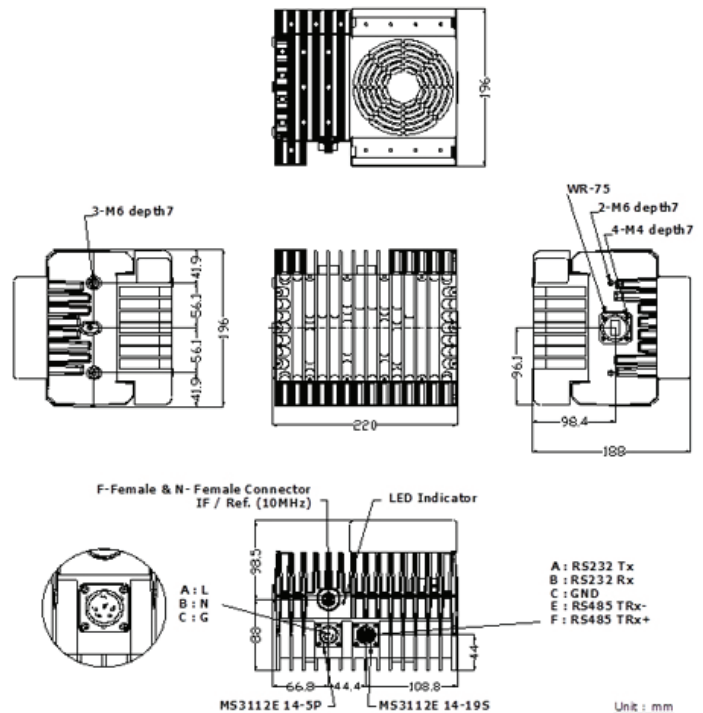
INTERFACES

Input VSWR	2.0 : 1
Output VSWR	2.0 : 1
Input Connector	N: 50 Ω , F: 75 Ω
Output Connector	WR-75

DC MECHANICAL DRAWING



AC MECHANICAL DRAWING



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