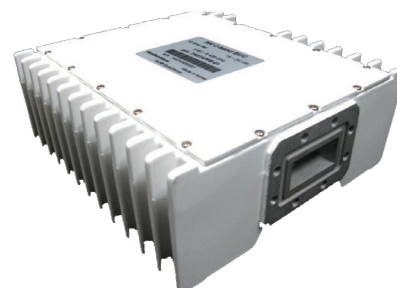


# BUC C-BAND 5W ELMTBC005

## TYPICAL SPECIFICATIONS



|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| Output Power (P1dB)    | 37 dBm min.                                                                                                          |
| Output Power (Psat)    | 37.5 dBm min.                                                                                                        |
| Phase Noise (SSB) max. | -60 dBc/Hz at 100 Hz<br>-70 dBc/Hz at 1 kHz<br>-80 dBc/Hz at 10 kHz<br>-90 dBc/Hz at 100 kHz<br>-100 dBc/Hz at 1 MHz |
| Linear Gain            | 61 dB typ., 56 dB min., 66 dB max.                                                                                   |
| Gain Flatness :        |                                                                                                                      |
| Over Full Band         | ≤ 4.0 dB p-p                                                                                                         |
| Over Any 54 MHz        | ≤ 1.5 dB p-p                                                                                                         |
| Over Temperature       | ≤ 4.0 dB p-p                                                                                                         |
| Output Spurious:       |                                                                                                                      |
| In-Band                | ≤ -60 dBc                                                                                                            |
| Out-of-Band            | ≤ - 50 dBc                                                                                                           |
| Noise Power Density    | -80 dBm/Hz in Tx<br>-156 dBm/Hz in Rx                                                                                |
| Input VSWR             | 2.0 : 1 max.                                                                                                         |
| Output VSWR            | 2.0 : 1 max.                                                                                                         |
| Input Voltage          | +15V to +24V DC via IFL                                                                                              |
| Power Consumption      | 55W max.                                                                                                             |
| Input (waterproof)     | Type F Connect or (75 Ohm)<br>Type N Connector (50 Ohm)                                                              |
| Output (waterproof)    | CPR-137G waveguide grooved                                                                                           |
| Dimensions (L x W x H) | 176.1 mm x 161.5 mm x 65 mm<br>(6.93 in x 6.35 in x 2.55 in)                                                         |
| Weight                 | 1.8 kg (3.97 lb)                                                                                                     |
| Operating Temperature  | -40 to +55°C                                                                                                         |
| Storage Temperature    | -40 to +80°C                                                                                                         |
| Humidity               | 0-100% condensing                                                                                                    |
| External Ref Freq      | 10 MHz (sine-wave), -5 to +5 dBm                                                                                     |
| Enclosed Accessories   | Screws, Gasket                                                                                                       |

## FREQUENCY BANDS

|                      | S: Standard   | P: Palapa     | I: Insat      |
|----------------------|---------------|---------------|---------------|
| Frequency Band (GHz) | 5.850 - 6.425 | 6.425 - 6.725 | 6.725 - 7.025 |
| L.O. Frequency (GHz) | 4.90          | 5.275         | 5.75          |
| IF Frequency (MHz)   | 950 - 1525    | 1150 - 1450   | 975 - 1275    |





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# BUC C-BAND 5W ELMTBC005

## HOW TO ORDER

### ELMTBC005-PN

ELEMENT SERIES

B: BUC

C: C-Band

POWER  
005: 5W

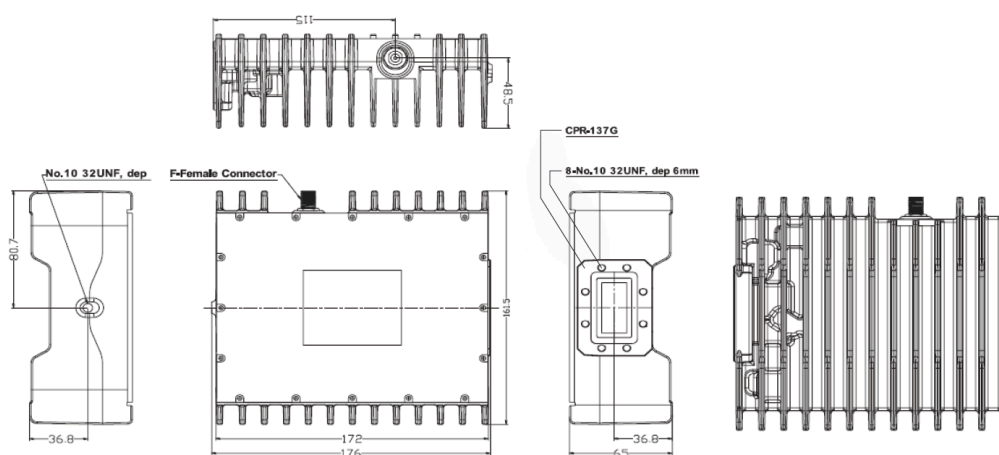
CONNECTOR

F: Type F Connector (75 Ohm)  
N: Type N Connector (50 Ohm)

FREQUENCY

S: Standard  
P: Palapa  
I: Insat

## MECHANICAL DIAGRAM



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