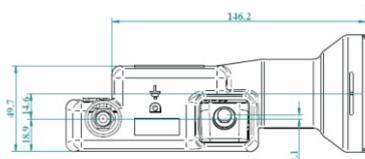


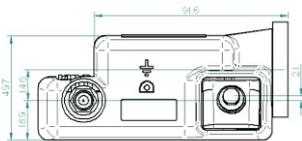
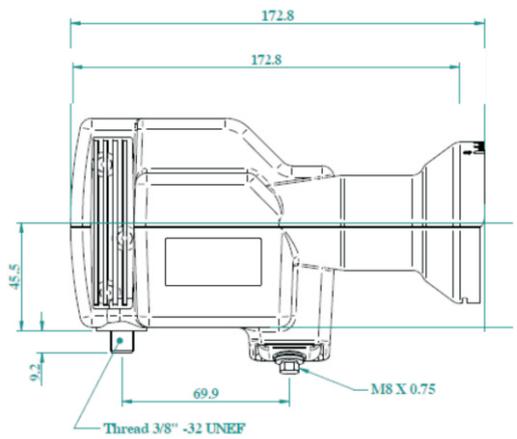
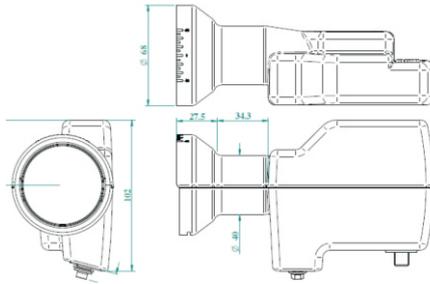


# GI FibreMDU

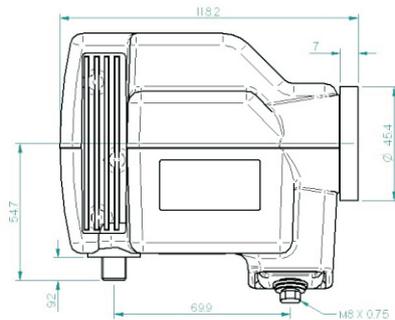
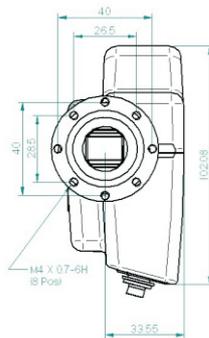
## Optical Output LNB



O-LNB



O-LNB C120



### Specification

#### INPUT FREQUENCY

The input RF range is 10.7-12.75GHz linearly polarised (horizontal and vertical).

#### OUTPUT FREQUENCY

950 MHz - 5.45 GHz. The modulated laser output will be at 1310nm.

#### OPTICAL OUTPUT POWER

7dBm nominal at 25°C, ± 2dBm over full temperature range.

#### NOISE FIGURE

Typical at 25°C	Max at 25°C	Typ Over Temperature	Max Over Temperature
0.5dB	1.1dB	0.7dB	1.3dB

#### GAIN

Max gain: 72 dB, Min Gain: 62 dB, at room temperature.  
Gain variation over temperature (-30° to + 60°C): +/- 2dB  
Gain flatness (0.95 to 5.45 GHz): 5 dB per band

#### GAIN RIPPLE

The gain ripple per 26MHz bandwidth must be less than ±0.5dB.

#### PHASE NOISE

Offset Frequency	Maximum Limit
1KHz	-55dBc/Hz
10KHz	-80dBc/Hz
100KHz	-100dBc/Hz
1MHz	-110dBc/Hz

#### LOCAL OSCILLATOR STABILITY

Condition	Maximum Variation from Nominal Frequency
Initial Setting	±1 MHz
Temp. Drift (-40° to +60°C)	±2 MHz
Aging and Total Drift (10 Year Life)	±4 MHz

#### CURRENT CONSUMPTION

Current consumption < 450 mA.

#### IMAGE REJECTION

40dB min.

#### CROSS POLAR ISOLATION

Typically 30dB, Minimum 25dB

#### OUTPUT CONNECTORS

DC Input	Female F-Type
Optical Output	FC/PC

#### SUPPLY VOLTAGE

Condition	Limit
Nominal Supply Voltage	12 V

#### SPURIOUS OUTPUT

(after recovering modulation)  
In band (950MHz-3GHz, 3.4GHz-5.45GHz) : -25 dBc

#### MECHANICAL AND ENVIRONMENTAL

##### TEMPERATURE RANGES

Condition	Limits
Ambient Operating Temperature Range	-30°C to +60°C
Storage Temperature Range	-40°C to +70°C

##### DISH AND LNB MECHANICAL INTERFACE

The LNB will be attached to the satellite dish using a 40mm clamp. The recommended fitting for the C120 version is the ADF-120 Adjustable Feed Horn.