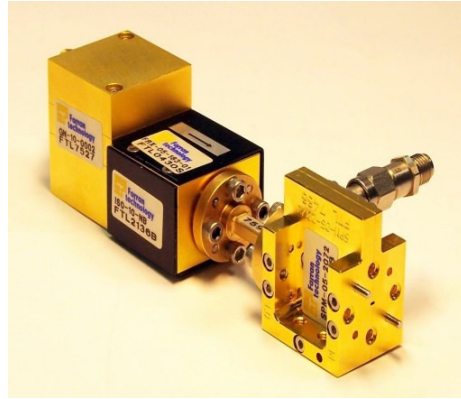


Datasheet
Description

Passive mm-wave (PMMW) imaging provides the unique capability to create high resolution images in low visibility conditions (e.g. through clothing, clouds or fog) and therefore useful for such an applications as concealed weapon detection and airplane landing. Passive imagers operate by detecting naturally emitted thermal (black body) radiation from an object. Products available up to 325GHz


Features

- High performance receiver front end
- Low noise figure
- Integrated LO
- Broad IF bandwidth

Applications

- Airport security screening
- Imaging
- Standoff screening

Specification	Unit	Min	Typ	Max
Frequency	GHz		183	
RF Bandwidth	GHz		10 (+/-5)	
LO Source	GHz		91.5*	
LO Frequency Tuning Range	MHz			200
Pre Detection Bandwidth	GHz	0.02 - 5 ($\pm 10\%$)		
System Noise Figure	dB		5.5	6.5
LO Tuning Voltage	V	4.5	5	
RF Waveguide		WR-05		
Flange		UG-387/U-M		
IF Output Connector		SMA(f)		
Tuning Voltage Connector		SMA(f)		
DC Supply		+5V @ 0.8A typ		
Weight	kg	0.2		
Dimensions	mm	105 x 35x 45mm		

Note 1:* Different centre frequency available. Contact factory for information.

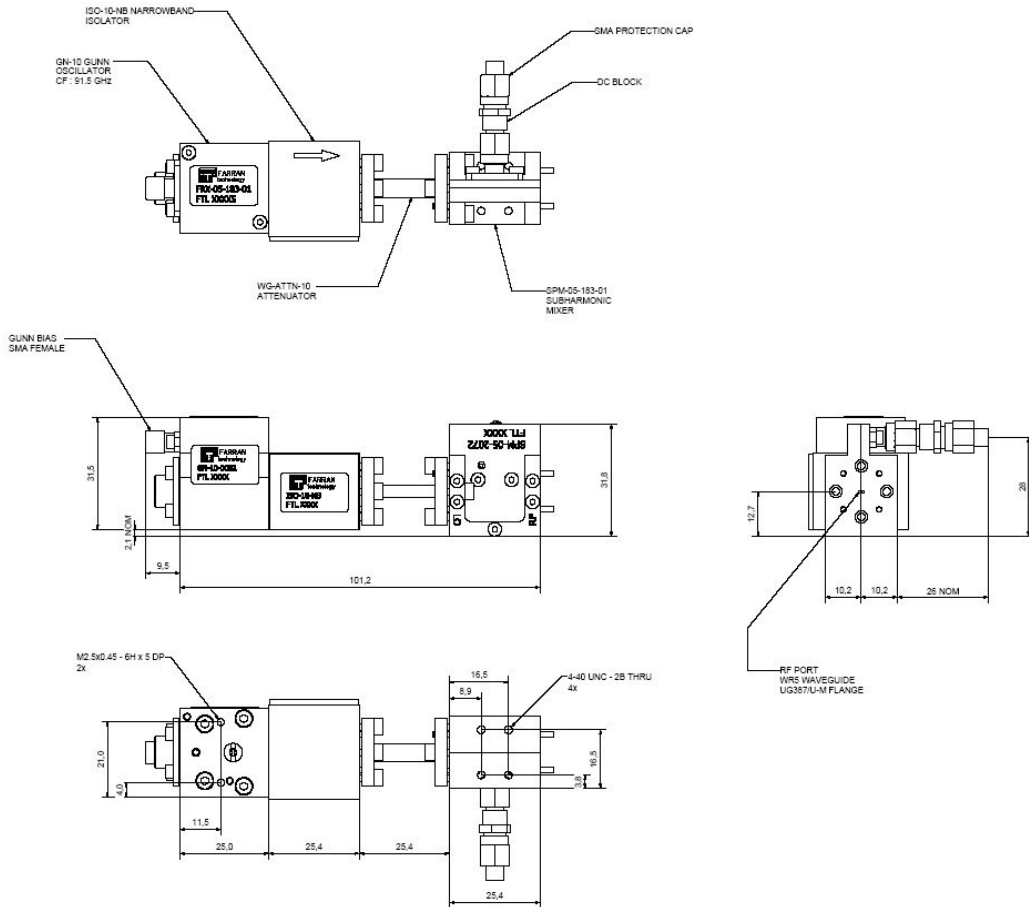
Datasheet


Figure 1. FRX-05-183-01 top and side view.

Note 2:

Farran Technology reserves the right to change, without notice, the characteristic data and other specifications applied to this product. The product may be subject to Irish export restrictions.