



Features:

- Support 10-2800MHz Bandwidth Uncooled 1310 or 1550nm DFB Laser diode Single Fiber Bi-Directional Operation
- Up to 8 Slave and 1 Master Links
- WDM module inside
- Very good isolation between Tx and Rx High Dynamic Range, low Noise Monitoring and Alarm Capability
- Signal level (MGA) Manual Gain Adjustment



This device RF over Fiber modules (RToF) is a high performance and reliable optical subsystem, convert analog RF signals to fiber optic signals on both master and slave units. The RToF modules are suitable for Telecom systems, Tetra systems, indoor GPS coverage, Base stations can be connected through fiber to remote sector antennas, the fiber optic link able to support the distance of 10km with very low noise and low insertion loss, and support to monitor the optic signal status.

DB9 Connector Pin Assignment

Pin No.	Pin Function
1	NC
2	GND
3	VCC, +12V
4	RS232-Tx
5	RS232-Rx
6	NC
7	LD Alarm
8	NC
9	PD Alarm

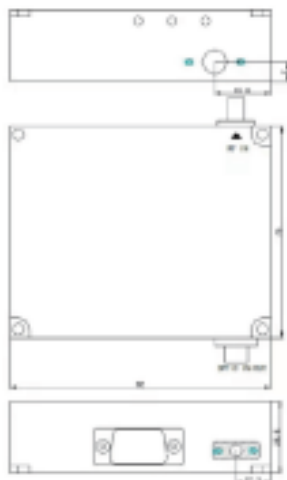
Frequency Response [600 - 2700 Mhz]



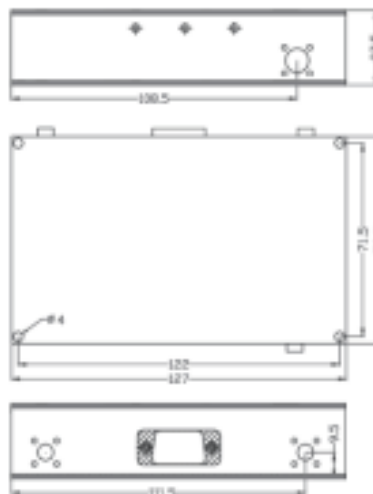
	Parameter	Typical
RF	Frequency Range	10 - 2800MHz
	Flatness @ any 100 MHz	± 1 dB [max]
	Input/Output Impedance	50 Ω
	Input/Output VSWR	1.5 : 1 [max]
	Maximum Input without Damage	+10 dBm
	Gain Control Adjusting	-15 to +10 dBm
	RF Isolation	60 dB [min]
	Link Gain	0 ± 10 dB
	Third Order Modulation Output	-60 dBc [max]
	Noise Figure	-135 dBm/Hz [max]
	SFDR	≤ -60dBm/100KHz (600MHz~3GHz)
	RF Connector	SMA –Female
Optical	Master Optical Wavelength	1550nm ± 10 nm
	Master Optical Power	3dBm [M1] -3dBm [M4] -5dBm [M8]
	Slave Optical Wavelength	1310nm ± 10 nm
	Slave Optical Power	3 dBm [min]
	Maximum Input Power	+5 dBm
	Average Rx Sensitivity	-20dBm [min]
	Optical Isolation	35dB [min]
	Connector Type	FC/APC
Physical	Power Supply Connector / FSK	DB9 / RS232
	RS232 Transmission Speed	4.8 - 19.2k bit/s
	Operating Current	+12 VDC @ 300 mA
	Operating Temperature Range	-10°C to +70°C
	Storage Temperature Range	-40°C to +85°C

Dimensions

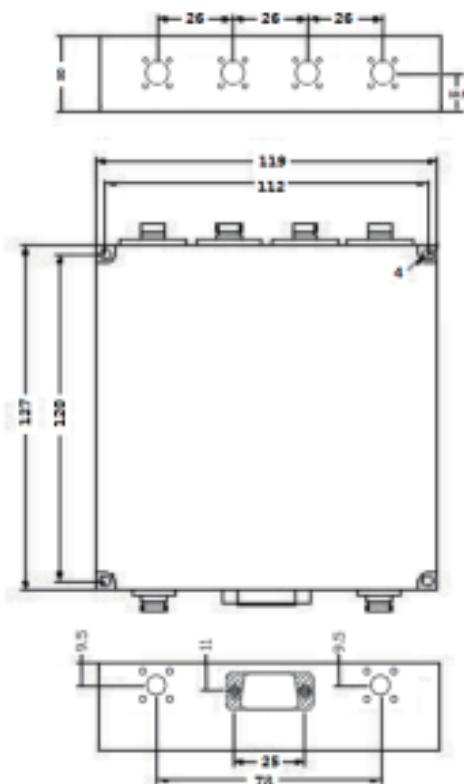
TPRF-2F625-M Dimensions 92 x 75 x 25.5 mm
weight 258 grams or less



TPRF-2F625-M1 Dimensions 127 x 76.5 x 27.5 mm
weight 288 grams or less



TPRF-2F625-M4 Dimensions 119 x 127 x 30 mm
weight 550 grams or less



TPRF-2F625-M6 Dimensions 119 x 171 x 34 mm
weight 750 grams or less

