

## **Model Number:**

**SRY-TX-Y-481** 

### **Optical Fibre 10MHz Reference Transmit Module**

Optical Wavelength 1310 ± 10 nm



**Settings** 

Switch 4 Only



- Compact EMC sealed housing featuring an RF monitor port
- Converts a 10 MHz reference signal to 1310nm for transmission over a single mode fibre.
- -20 dB monitor port

Available with connector options:

- FC/APC or SC/APC optical connectors
- SMA or BNC in 50 ohm RF connectors



**RF Parameters** Frequency Range 18 dB typ., 12dB min Return Loss 50 ohm SMA All RF connectors are female. 50 ohm BNC 18 dB typ., 12dB min All RF ports are DC blocked 0 to +15dBm (total power) RF Input Signal Range Operational i/p range Max RF input 16dBm total power Damage level, NOT operational. Monitor Port -20dB ±3dB 0.1 Hz -114 dBc/Hz typical, -98 dBc/Hz maximum 1 Hz -123 dBc/Hz typical, -117 dBc/Hz maximum 10 Hz -130 dBc/Hz typical, -124 dBc/Hz maximum 100 Hz -141 dBc/Hz typical, -135 dBc/Hz maximum Phase Noise 1000 Hz -153 dBc/Hz typical, -147 dBc/Hz maximum 10000 Hz -153 dBc/Hz typical, -147 dBc/Hz maximum 100000 Hz -153 dBc/Hz typical, -147 dBc/Hz maximum 1000000 Hz -153 dBc/Hz typical, -147 dBc/Hz maximum **Optical Parameters** Laser Type Two stage optical isolator for improved performance Optical Wavelength 1310 ± 10 nm Optical Power output 5.5 ±2 dBm **Optical Connectors** FC/APC Single mode fibre SC/APC







Use angle polish connectors only



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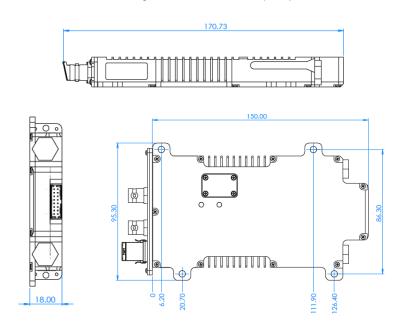
#### Optical Fibre 10MHz Reference Receive Module

Non RF Parameters			
Module swap	Hot swap		
Power supply voltage	12V ±1V	Single or dual redundant power	
Power consumption	6W		
MTBF	TBD hours	Module MTBF	
Control, Monitoring & Alarms			
Control	Local	Switch 4 Only to set Fixed Gain	
Temperature monitors	Each module monitored,	All are independently monitored and reported.	
Monitoring includes	Laser Optical Output Power RF input power, -10 to +10 dBm Status of amplifier stages	In each module Local via LED.	
AGC	Factory set	Maintains optimum level of laser modulation over input range	

#### Technical specifications and operating parameters

Environmental Conditions		
Operating Temperature	-20°C to +60°C	
Storage Temperature	-40°C to +90°C	
Location	Indoor use	Outdoor Use available in a different Model Number
Humidity	20 to 90% non-condensing	Relative Humidity
Altitude	10,000 ft AMSL	Above mean sea level
Mass	0.35 Kg typical	
Size	87.8 x 18 x 150 mm	See Figure 1.

#### **Physical Dimensions (mm)**



Note-1: Typical parameters are guide figures and measured data may deviate from the quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible.

Note-2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage. For reliable long term operation do not exceed the parameters given in above.

Note-3: The spec table is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note-4: Any combination of RX or TX modules of series 2xx can be fitted into this chassis, SRY-C2xx series.

Note-5: The receiver is optimized for operation at 1310 nm and 1550 nm but may be used over a wide wavelength range ranging from 850 nm to 1600 nm.

ETL SYSTEMS LIMITED Coldwell Radio Station Madley Hereford England HR2 9NE

TELEPHONE +44 (0)1981 259020

info@etlsystems.com

.00020

FACSIMILE +44 (0)1981 259021

WEB www.etlsystems.com









