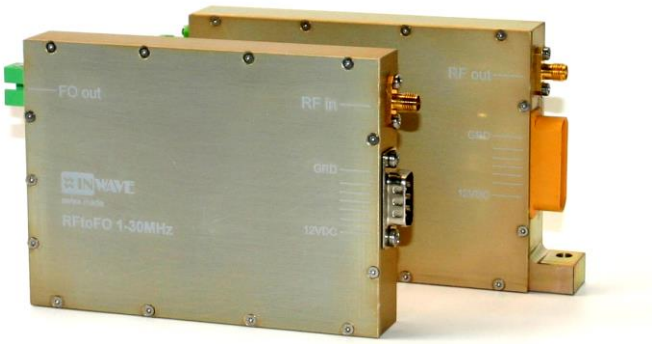
AFOL-100R

Features :

- Bandwidth 100 kHz to 100 MHz
- No external control circuits required
- Analog Signal to Optical convert and reverse
- Digital input attenuator 1 to 31 dB



Applications:

- Antenna remoting
- Interfacility communication links
- Reference Signal distribution

The Analog Fiber Optic Link AFOL-100 offers a very high stability in addition to excellent performance in phase noise and frequency jitter, for application like remote antenna connection in communication Systems, Radars and others.

Parameter Electrical		Value			Remarques
		Min.	Typ.	Max.	
All specifications at 25°C case Temperature T_c, unless otherwise specified					
Frequency Range	MHz	0.1 to 100			other frequencies on request
Gain	dB	1	3	5	
Gain flatness	dB		3		
Noise figure	dB		20		
Spurious-free dynamic range	dB $Hz^{2/3}$		100		
Max. Input at 1dB compression	dBm		-10		
Max. Input power for no damage	dBm		+15		
Supply voltage V_S Transmitter	VDC	+ 12	+ 12	+ 15	160 mA
Supply voltage V_S Receiver	VDC	+ 12	+ 12	+ 15	130 mA
Temperature range (OTR) operating	°C	-20		+ 50	
storage	°C	-40		+60	
Mass Transmitter	kg	0.35			
Mass Receiver	kg	0.3			
Dimensions Transmitter	mm	150 x 88 x 20			
Dimensions Receiver	mm	120 x 88 x 20			
RF Connectors		SMA female			

Parameter Optical		Value			Remarques
		Min.	Typ.	Max.	
All specifications at 25°C case Temperature T_c, unless otherwise specified					
Fiber optic connectors		SC/APC			
Fiber		Single mode fiber 9/125um			
Optical power in fiber	mW	6	8	10	
Side mode suppression ratio	dB	30	40		

Analog Fiber Optic Link 0.1MHz to 100MHz

Descriptions

Transmitter PIN connections Sub-D :

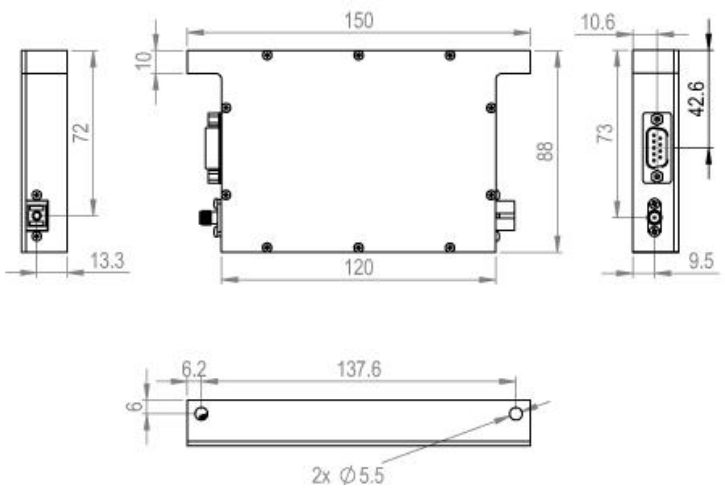
1 : DC 12V
2 : Attenuator +16 dB
3 : Temp.Sensor PT1000
4 : Laser current
5 : DC GND
6 : Attenuator +1 dB
7 : Attenuator +2 dB
8 : Attenuator +4 dB
9 : Attenuator +8 dB

Receiver PIN connections Sub-D :

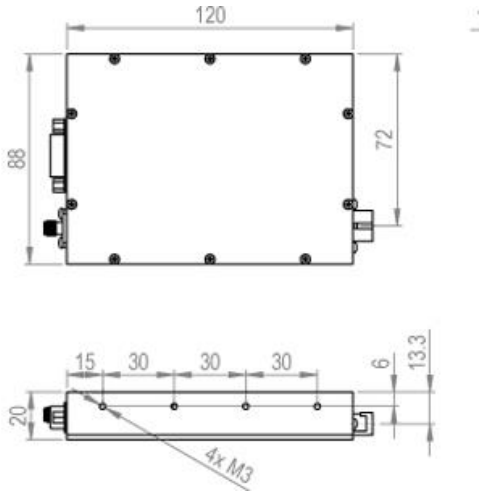
1 : DC 12V
2 : NC
3 : Temp.Sensor PT1000
4 : NC
5 : DC GND
6 : NC
7 : NC
8 : NC
9 : NC

- The temperature sensor PT100 is grounded
- Activate the required attenuator level by connecting to ground

Dimensions (mm)



Transmitter



Receiver