DATA SHEET

RFoF

Receiver, 40 GHz, Flange mount, 1 RF OUT, 1 FO IN

RFoF1 - 40 GHz (RX)

Properties

- Wide bandwidth from 0.1 up to 40 GHz
- Stable fixed gain and RF performance over the full operating temperature range
- High spurious-free dynamic range (SFDR)
- Local LED status indication and SUB-D monitoring signals
- Conforms to class 1 emission level per CDRH and IEC-835 (EN 60825 standards)
- -20°C to +65°C operating case temperature range
- Small form factor for flange mounting



General data	
Product family	RFoF standard receiver module
Suitable Products	RFoF1 - 40 GHz (TX) 85219366
	Power supply: PS-19W D-Sub 9pol-AC to DC 85240388
Module type	Flange mount module

Electrical data	
Frequency range	100 MHz ... 40000 MHz
Link gain range	0 dB ... 10 dB
Link gain typical	7 dB
Frequency response flatness	+/- 5 dB
Link noise figure	13 dB ... 20 dB
Link noise figure typical	16 dB
Link spurious	-70 dBc max.
Link spurious free dynamic range SFDR3 typical	104 dBHz ⅔
Link input at 1dB compression point min.	-12 dBm
Link input at 1dB compression point typical	-10 dBm
Power consumption	< 3 W
Supply voltage range	11 V DC ... 13 V DC
Supply voltage typical	12 V DC

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Electrical data	
Supply current typical	< 0.25 A

Mechanical data	
Weight	1 kg
Weight in lbs	2.2 lbs
Dimensions (LxWxH)	127mm x 190.5mm x 38.1mm

Environmental data	
Storage temperature	-40 °C ... 85 °C
Operation case temperature	-20 °C ... 65 °C

Optical data	
Time delay	6 ns
Receiver wavelength range	1270 nm ... 1610 nm
Optical input power damage limit	10 dBm

Output of RF connection	
Product family RF connector	PC 2.9
Gender	Female
Amount of RF connectors	1 pcs
RF input impedance	50 Ω
Output return loss min	8 dB
Output return loss typical	12 dB

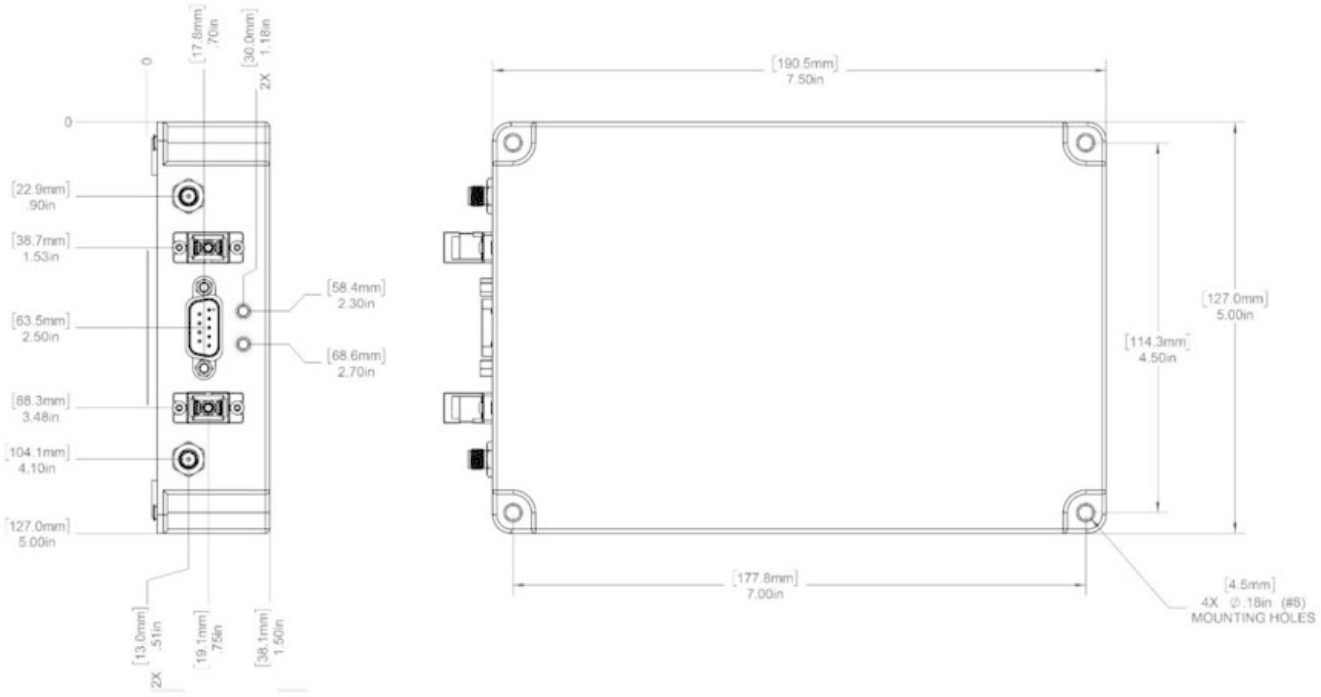
Input of FO connection	
Product family FO connector	FC APC
Amount of FO Connectors	1 pcs
Fiber type	Singlemode

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Technical drawing

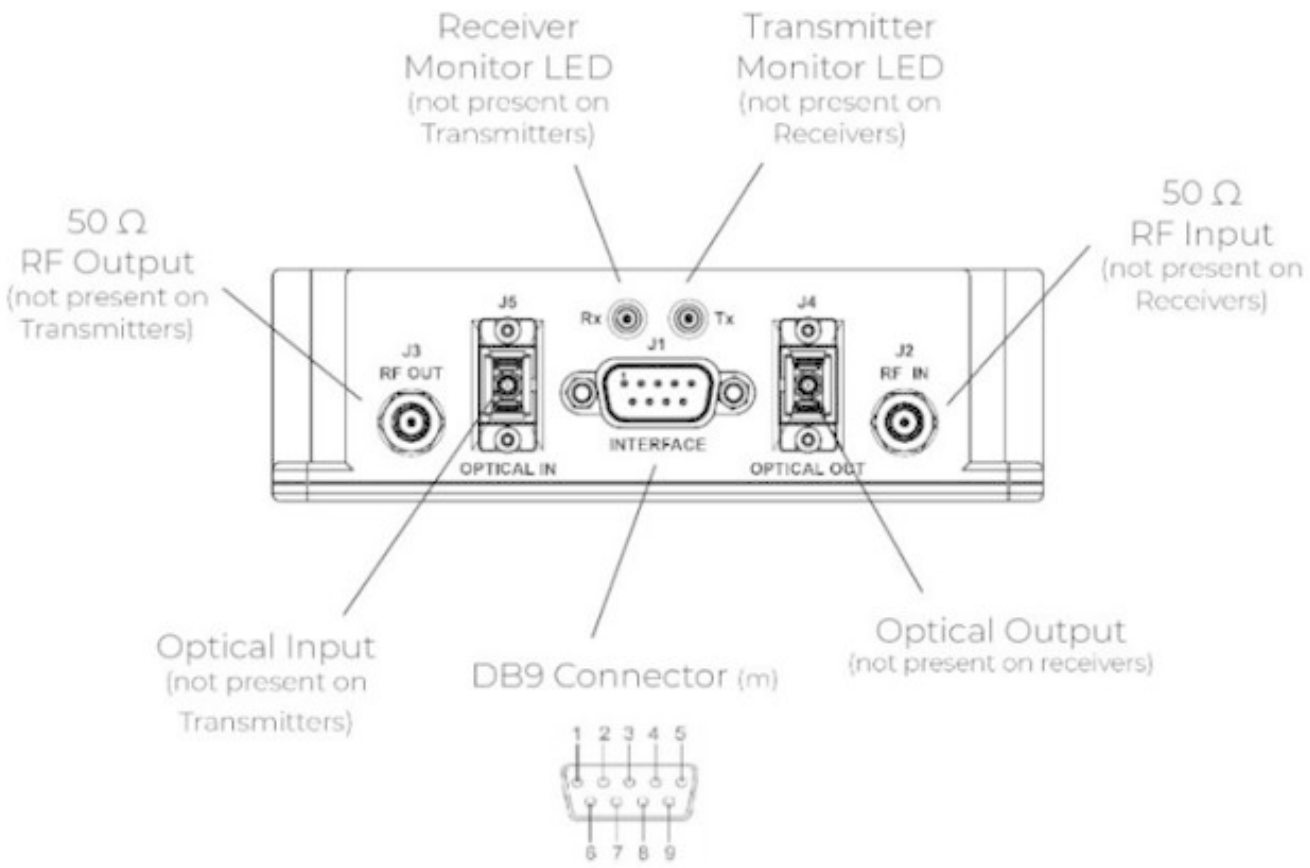


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Diagram



LED Definition		
LED State	**Transmitter**	**Receiver**
OFF		Module not powered
Green		Normal operation
Red		Optical input power low (<-10 dBm)

SUB-D connector				
Pin Number	**Signal Description**	**Signal Direction**	**Voltage Range**	**Current**
1	Ground	-	-	-
2	+12V DC supply	Input	11V to 13V	< 0.2 A
3	Ground	-	-	-
4	Optical power monitor	Output	Vmon= 0.6 ... 0.8 V/ mWopt	Max. 2 mW
5	Ground	-	-	-
6	TX optical power alarm	Output	5V CMOS (0V: no alarm, 5V alarm)	Max. 25 mA
7	Ground	-	-	-
8	PCB temperature	Output	10mV/°C, 750mV@25°C, range: -40 ...+ 125°C	< 50 µA (load)
9	Ground	-	-	-

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Scope of delivery	
Scope of delivery	Power supply is not included; compatible option is listed under suitable products.

Ordering Information Table	
Item number	Item description
85219367	RFoF1 - 40 GHz (RX)

Additional Information

Total link time delay calculation: Total delay [ns] = time delay TX [ns] + time delay RX [ns] + time delay single mode fiber 1310nm [ns/m] * link length [m]
Example 100m link delay = 6 ns + 6 ns + 100m * 4.9 ns/m = 502 ns

Link values are specified with transmitter RFoF1 - 40 GHz (TX) 85219366

All specifications measured at 25°C case temperature unless otherwise stated

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DOCUMENT PIM-P43666 / Date of publication: 12.02.2026 / uncontrolled copy