DATA SHEET

RFoF

Transmitter, 100 MHz, DIN Rail, 1 RF IN, 1 FO Out

RFoF1 - 100MHz (TX)

Properties

- low jitter / phase noise
- Excellent stability
- High phase accuracy
- Monitoring functions
- Timing and synchronization
- Low phase noise reference and local oscillator signal distribution
- Radar applications
- Test and measurement



General data	
Product family	RFoF low phase transmitter module
Suitable Products	RFoF1 - 100MHz LPN (RX) 85161323
	Power supply: PS-12W D-Sub 9pol-AC to DC 85275487
Module type	DIN Rail module

Electrical data	
Frequency typical	100 MHz
Link gain range	1.5 dB ... 4.5 dB
Link gain typical	3 dB
VSWR	1.9
Nominal input power	1 dBm ... 3 dBm
Nominal input power typical	2 dBm
RF input power damage limit	20 dBm
Supply voltage range	11 V DC ... 16 V DC
Supply voltage typical	12 V DC
Supply current typical	0.25 A

Phase noise		
Phase noise	**Phase noise typical**	**Phase noise max**
10 Hz offset		-130 dBc/Hz
100 Hz offset		-139 dBc/Hz
1 kHz offset		-145 dBc/Hz
10 kHz offset		-149 dBc/Hz
100 kHz offset		-150 dBc/Hz
1 MHz offset	-158 dBc/Hz	-156 dBc/Hz

RFoF

Transmitter, 100 MHz, DIN Rail, 1 RF IN, 1 FO Out

RFoF1 - 100MHz (TX)

Phase noise		
Phase noise	**Phase noise typical**	**Phase noise max**
10 MHz offset	-158 dBc/Hz	-156 dBc/Hz

Mechanical data	
Weight	0.27 kg
Weight in lbs	0.6 lbs
Dimensions (LxWxH)	90mm x 100mm x 23mm

Environmental data	
Storage temperature	-40 °C ... 85 °C
Operation case temperature	-40 °C ... 75 °C

Optical data	
Optical power - signal min	4 mW
Optical power - signal max	7 mW
Side mode suppression ratio typical	40 dB
Transmitter wavelength typical	1310 nm

Input of RF connection	
Product family RF connector	SMA
Gender	Female
Amount of RF connectors	1 pcs
RF input impedance	50 Ω

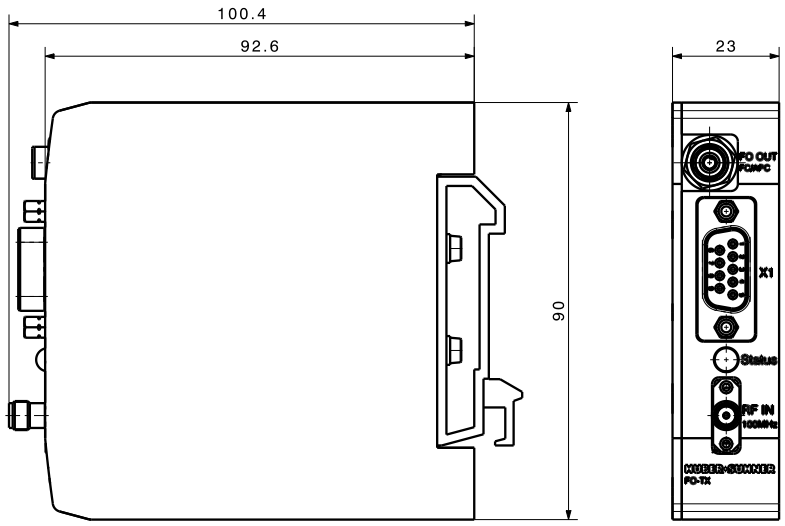
Output of FO connection	
Product family FO connector	FC/APC
Amount of FO Connectors	1 pcs
Fiber type	Singlemode

RFoF

Transmitter, 100 MHz, DIN Rail, 1 RF IN, 1 FO Out

RFoF1 - 100MHz (TX)

Technical drawing



SUB-D connector				
Pin Number	**Signal Description**	**Signal Direction**	**Voltage Range**	**Current**
1	Ground	-	-	-
2	+12V DC supply	Input	11V to 16V	< 250 mA
3	Ground	-	-	-
4	Optical power monitor	Output	Vmon= 0.1 ... 0.2 V/mWopt	Max. 2 mA
5	Ground	-	-	-
6	TX optical power alarm	Output	TX (0: no alarm, 1: alarm)	+/- Max. 25 mA
7	Ground	-	-	-
8	PCB temperature	Output	10mV/°C, 750mV@25°C, range: -40 ...+ 125°C	< 50 µA (load)
9	Ground	-	-	-

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

RFoF

Transmitter, 100 MHz, DIN Rail, 1 RF IN, 1 FO Out

RFoF1 - 100MHz (TX)

Ordering Information Table	
Item number	Item description
85161322	RFoF1 - 100MHz (TX)

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P43674 / Date of publication: 12.02.2026 / uncontrolled copy