

GNSSoF

Transmitter, L1, L2, DIN Rail, 1 RF IN, 1 FO OUT

D-GNSSoF1-1T-L12

Properties

- Plug and Play: No external control required
- Efficient analog signal to optical convert and back
- For GPS, Galileo, Glonass, BeiDou, IRNSS, QZSS and other GNSS systems
- NEBS Level 3 Carrier Grade



General data	
Product family	GNSSoF Transmitter
	GNSS ANT L1+L2 3.3V 85160014
	O-GNSS-L15-02 85243244
Suitable Products	D-GNSSoF1-1R-L12 85135573
	D-Rail-Wall-Br, 85285242

Electrical data	
GNSS band	L1: 1545 - 1610 MHz L2: 1164 - 1254 MHz
Link gain range	8 dB ... 12 dB
Link gain typical	10 dB
Frequency response flatness	+/- 3 dB
Link noise figure typical	L1: 12 dB L2: 9 dB
VSWR	< 2
RF input power damage limit	19 dBm
Max. input at 1dB compression	-20 dBm
Antenna supply voltage for active antennas	3 V ... 3.6 V
Antenna supply current for active antennas max	80 mA
Power connector	2-pole industry connector
Supply voltage range	11 V DC ... 14 V DC
Supply voltage typical	12 V DC
Supply current typical	100 mA

Mechanical data	
Weight	0.27 kg
Dimensions (LxWxH)	90mm x 95mm x 23mm

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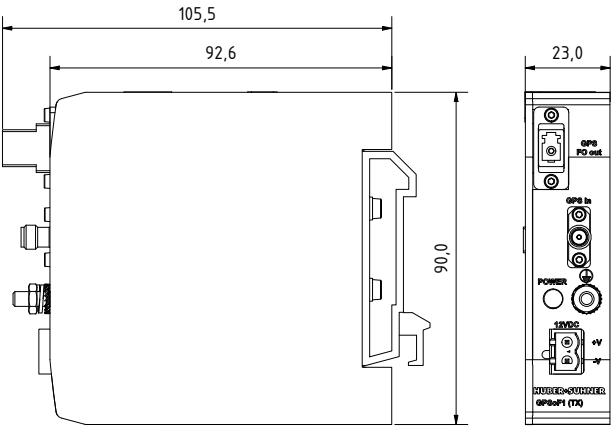
Environmental data	
Storage temperature	-40 °C ... 85 °C
Operation case temperature	-5 °C ... 55 °C

Optical data	
Time delay	15 ns
Optical power - signal typical	5 mW
Side mode suppression ratio typical	40 dB

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	LC UPC
Amount of FO Connectors	1 pcs
Fiber type	Singlemode

Technical drawing



LED Definition		
LED State	Transmitter	Receiver
Red	No optical output power	
Green	Normal operation	

Scope of delivery	
Scope of delivery	An external plug (UK, US, SAA, EU) in power supply will be delivered for 100 - 240 VAC to 12 VDC conversion

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