



TV and IF SAT optical receivers FO-RX DTT series

art. 19-015A FO-RX DTT AGC

Optical receiver that allows to convert optical signals in input into electrical signals. Equipped with a TV and IF SAT input and a TV+IF SAT output.

Equipped with connectors of different type:

- no. 1 SC/APC input connector for the optical signal;
- no. 1 screw F-type output connector, where are the signals converted from optical to electric;
- no. 1 screw F-type connector for the connection of the power supply unit.

With AGC, that allows the automatic gain control to balance the optical loss of the system.

12V power supply unit is included.

A LED "OPT" indicator allows to monitor the receiver optical input power:

- Non-lighted LED: < -10 dBm (low input power);
- Green LED: -10 ÷ +3dBm (correct input power);
- Red LED: > +3 dBm (too high input power).

A red LED "POWER" indicator when it is lighted indicates that the receiver is powered.



Characteristics

- Equipped with AGC (automatic gain control)
- For DTT and IF SAT signals systems

Code Item	19-015A FO-RX DTT AGC
No. optical TV+IF SAT outputs	1
No. TV-SAT inputs	1
Input connector	SC/APC
Outputs connectors	screw F type
Input frequencies MHz	47 ÷ 2150
Output impedance Ω	75
Wavelength nm	1260 ÷ 1600
Optical input power dBm	-10 min ; +3 max (-7 min ; +2 max with AGC)
Max consumption W	<2
Optical return loss dB	≥45
Return loss dB	≥14
Optical output level dBμV	TV: 80 ; SAT: 73, with AGC
Signal to noise ratio (C/N) dB	≥50
Composite Second Order (CSO) dB	≥62
Composite Triple Beat (CTB) dB	≥65
TV slope dB	±0,75
SAT slope dB	±1,5
Optical cabling fibre type	single mode 9/125
Dimensions (LxWxH) mm	75x55x17
Packaging dimensions (LxWxH) mm	85x75x75
Packaging weight Kg	0,171
POWER SUPPLY UNIT (included)	
Power supply Vdc	12
Max delivered current A	0,5
AC main tension	100-240 V~ 50/60Hz
Isolation class	II
Connector	male F type

Example of application

