

1310±10

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FOT-A HIGH PERFORMANCE 1310 NM FORWARD PATH OPTICAL TRANSMITTER



- DOCSIS 3.1 compatible frequency range
- Independent local electronic configuration interface
- Remote management and configuration
- Front or rear optical interface

TECHNICAL SPECIFICATIONS

Optical parameters
Wavelength [nm]

Output optical power [mW]	2.531 (415dBm)
Relative intensity noise (RIN) [dB/Hz]	<-155
Optical connector Laser type	SC/APC, EURO2000 DFB Cooled
Frequency range [MHz]	471218
Return loss [dB]	>16
Flatness [dB]	±0.5
Nominal RF input level (BC / NC) [dBμV]	80 ⁽¹⁾ / 100
RF input level range (BC and NC) [dB]	±8
RF offset range [dB]	-6+3
RF equaliser range [dB]	06
RF testpoint (3.2% OMI) [dBµV]	75±1
Port-to-port isolation (NC to BC) [dB]	>50
CTB [dBc]	-65 ⁽²⁾
CSO [dBc]	-57 ⁽²⁾
CNR [dB]	>51 ⁽²⁾

General parameters

Power consumption (typical / maximum) [W]	4.7 / 5.8 ⁽⁴⁾
Operational temperature range [°C]	0+50
Dimensions [mm]	230x130x35
Weight [kg]	0.5

(1) 92 ITU-T J.83 Annex A 256 QAM channels between 258 MHz and 1002 MHz

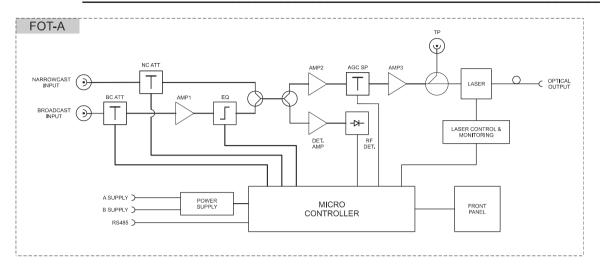
Noise-to-power ratio (NPR) maximum / Dynamic range of NPR > 42 [dB]

- (2) Test conditions: OMI=3.2%, 110 NTSC channels, received power -1 dBm
- (3) Measured with flat full spectrum load between 47 and 1218 MHz, after an optical link of 25 km, received power -2 dBm
- (4) Typical value measured at a TEC current of 0.3 A, maximum value measured at a TEC current of 1 A

Specifications are subject to change without notice!



BLOCK DIAGRAM



ORDERING INFORMATION

