Product Guide

FOT-D EXTERNALLY MODULATED 1550 NM DWDM FORWARD PATH OPTICAL TRANSMITTER



DOCSIS 3.1 compatible frequency range

- Up to 12 DWDM channels in a single fiber
- Adjustable SBS threshold
- Fine tunable wavelength in order to avoid signal degradation by FWM
- Optical link up to 60 km
- For CATV HFC, RfoG and FttH RF overlay solutions

TECHNICAL SPECIFICATIONS

Optical parameters	
Wavelength [ITU channel]	21, 22, 24, 26, 28, 33, 39, 48, 52, 54, 60, 62
Output optical power [mW]	14 (11.5dBm)
Relative intensity noise (RIN) [dB/Hz]	<-155
SBS threshold [dBm]	1216 (variable)
Optical connector	SC/APC, EURO2000
Laser type	Linear Externally Modulated (L-EML)
RF parameters	
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]	-60 ⁽²⁾
CSO [dBc]	-55 ⁽²⁾
CNR [dB]	>47.5 ⁽²⁾
Noise-to-power ratio (NPR) maximum / Dynamic range of NPR $>$ 42 [dB]	45 / 7 ⁽³⁾
General parameters	
Power consumption (typical / maximum) [W]	6.9 / 11.2
Operational temperature range [°C]	0+50
Dimensions [mm]	230x130x35
Weight [kg]	0.6
(1) 92 ITU-T J.83 Annex A 256 QAM channels between 258 MHz and 1002 MHz (2) Test conditions: 190 CW channels after an optical link of 40 km, received power 0 dBm	

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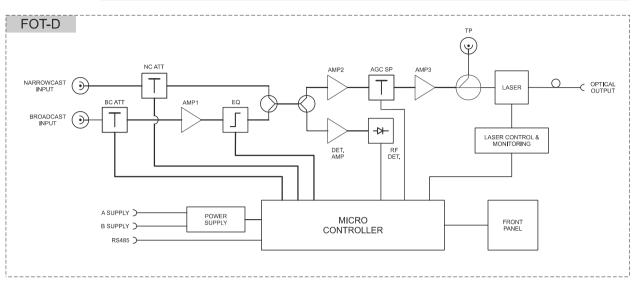
(3) Measured with flat full spectrum load between 47 and 1218 MHz, after an optical link of 55 km, received power -2 dBm

Specifications are subject to change without notice!

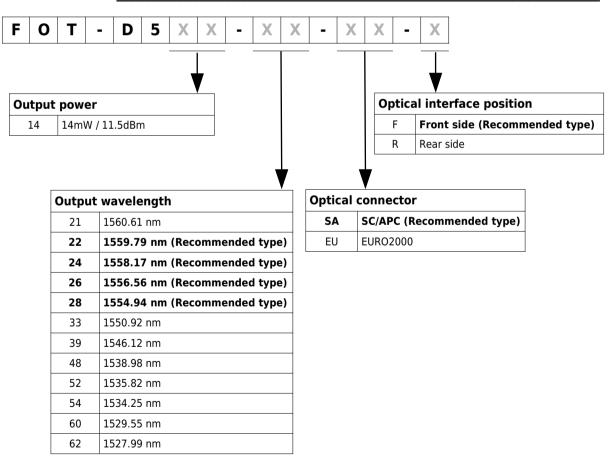
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BLOCK DIAGRAM



ORDERING INFORMATION



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