

FOT-C O-BAND CWDM FORWARD PATH OPTICAL TRANSMITTER



- DOCSIS 3.1 compatible frequency range
- Up to 5 CWDM channels in a single fiber
- Independent local electronic configuration interface
- Remote management and configuration
- Front or rear optical interface

TECHNICAL SPECIFICATIONS

Optical parameters

Wavelength [nm]	1291, 1311, 1331, 1351, 1371
Output optical power [mW]	4...20 (6...13dBm)
Relative intensity noise (RIN) [dB/Hz]	<-155
Optical connector	SC/APC, EURO2000
Laser type	DFB Cooled

RF parameters

Frequency range [MHz]	47...1218
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]	0...6
RF testpoint (3.2% OMI) [dBμV]	75±1
Port-to-port isolation (NC to BC) [dB]	>50
CTB [dBc]	-65 ⁽²⁾
CSO [dBc]	-59 ⁽²⁾
CNR [dB]	>51 ⁽²⁾
Noise-to-power ratio (NPR) maximum / Dynamic range of NPR > 42 [dB]	48 / 10 ⁽³⁾

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

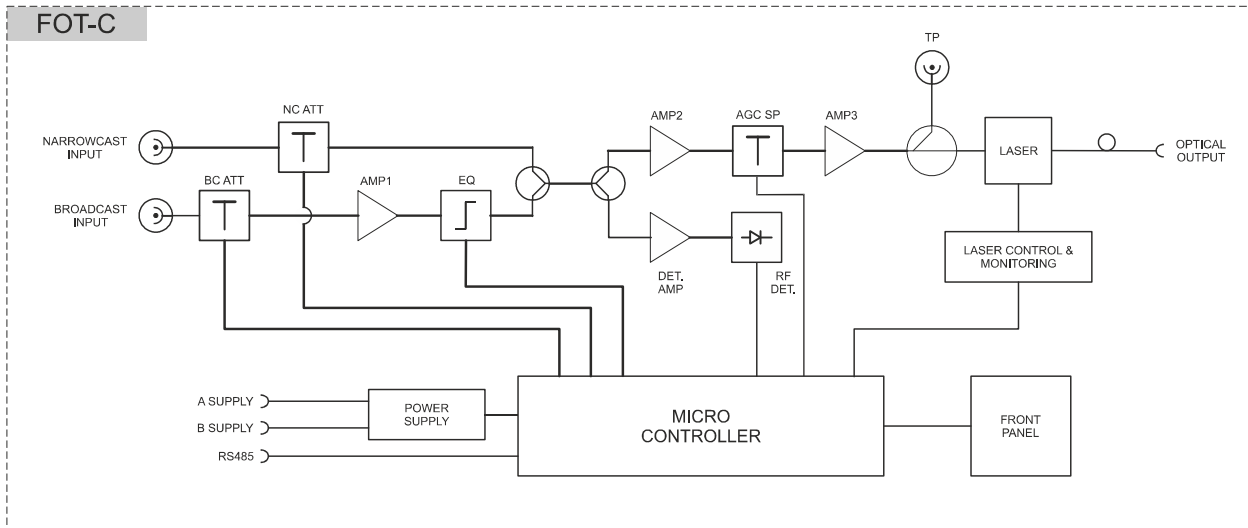
(2) Test conditions: OMI=3.2%, 79 NTSC channels

(3) Measured with flat full spectrum load between 47 and 1218 MHz, after an optical link of 0 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

F O T - C 3 X X - X X - X X - X

Output power	
04	4mW / 6dBm
06	6mW / 8dBm
08	8mW / 9dBm
10	10mW / 10dBm
13	13mW / 11dBm
16	16mW / 12dBm
20	20mW / 13dBm

Optical interface position	
F	Front side (Recommended type)
R	Rear side

Optical connector	
SA	SC/APC (Recommended type)
EU	EURO2000

Output wavelength	
29	1291 nm
31	1311 nm (Recommended type)
33	1331 nm (Recommended type)
35	1351 nm (Recommended type)
37	1371 nm

Specifications are subject to change without notice!