BOOSTRAL 711

Optical RFoG SDU FTTH micronode, 1 active output, 1.2 GHz / 200 MHz

VECTOR TECHNOLOGIES

FORWARD PARAMETERS

Wavelength	1543 - 1555 nm
Bandwidth	85…258- 1218 MHz
Optical AGC range	- 8 - 0 dBm
Flatness [1]	± 1 dB
Equivalent Input Noise Current	< 5 pA / √Hz
Output level [2]:	
CTB ≤ - 62 dBc	80 dBµV
CSO ≤ - 64 dBc	80 dBµV
Gain limited output level [3]	80 dBµV ± 2 dB

RETURN PARAMETERS

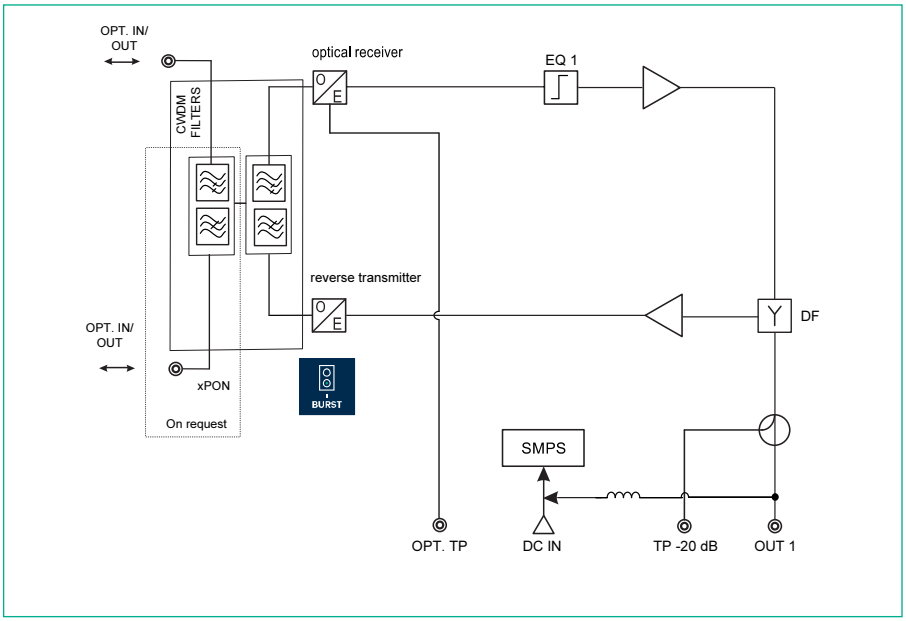
Wavelengths [4]	1610 nm
Frequency range	5 - 65…204 MHz
Flatness [5]	± 1.0 dB
Optical output power:	
ON	3 ± 0.5 dBm
OFF	< - 30 dBm
RF input threshold	70 dBµV ± 2 dB
Laser rise/fall time [6]	< 1 / <1 µs
Min RF input level to get 35 % OMI	93 dBµV
NPR / Dynamic range [7]	40 dB / 5 dB

OTHERS

Return loss [8]	≥ 18 dB
Voltage range: mains powering	external power supply 230 V AC / 12 V DC connected to the PWR IN port
Power consumption [9]	< 3.6 W
Operation temperature range	0 - 40 °C
Optical connectors	SC / APC
RF connectors type	1 x F female
Protection class	IP 42
Dimensions (W x L x H)	124 x 102 x 31 mm
Weight	0.5 kg

AVAILABLE VERSIONS

BOOSTRAL 711 256M O	external power supply, one fiber, upstream 5 - 65 MHz
BOOSTRAL 711 258M O	external power supply, one fiber, upstream 5 - 85 MHz
BOOSTRAL 711 251M O	external power supply, one fiber, upstream 5 - 204 MHz
BOOSTRAL 711 256M P	external power supply, xPON, upstream 5 - 65 MHz, on request
BOOSTRAL 711 258M P	external power supply, xPON, upstream 5 - 85 MHz, on request
BOOSTRAL 711 251M P	external power supply, xPON, upstream 5 - 204 MHz, on request



1.2 GHz technology
An extended bandwidth in downstream up to 1.2 GHz; DOCSIS 3.1 standard compliant

RFoG SDU / FTTH
To be used in a modern RFoG SDU / Fiber To The Home architecture

BURST mode
A laser lifetime significantly extended; noise reduction; reduced energy consumption

OBI FREE SYSTEM
Device designed to work in OBI FREE system

xPON port (on request)
A flexible solution to be used in the scenarios combined with xPON networks

1. In range 85 ÷ 862 MHz; ± 1.5 dB up to 1218 MHz; typical value
2. In accordance to 3 dB slope from 85 MHz to 1 GHz; CENELEC 42; typical value
3. 3,5 % OMI/channel; single carrier; Pin = - 6 dBm; wavelength 1550 nm
4. Up to 204 MHz; typical value
5. European RFoG IEC 60728-14 standard compliant
6. Measured with 12dB link (15km fiber + loss), 60MHz BW noise load, EINC 7pA / √Hz
7. In 5 ÷ 65 MHz; 18 dB for f < 40 MHz; 18 dB - 1.5 dB/oct for f > 40 MHz , but not worse than 11dB
8. Powered via DC port; power supply consumes additional 1W

Unless otherwise specified, the whole specifications are tested with 65 / 85 diplex filters installed; at room temperature 25°C and present typical values.

09/05/2016 Specifications are subject to change without notice.