Optical receivers

Optical broadband receivers 45 – 1.006 MHz with high power output for CATV applications



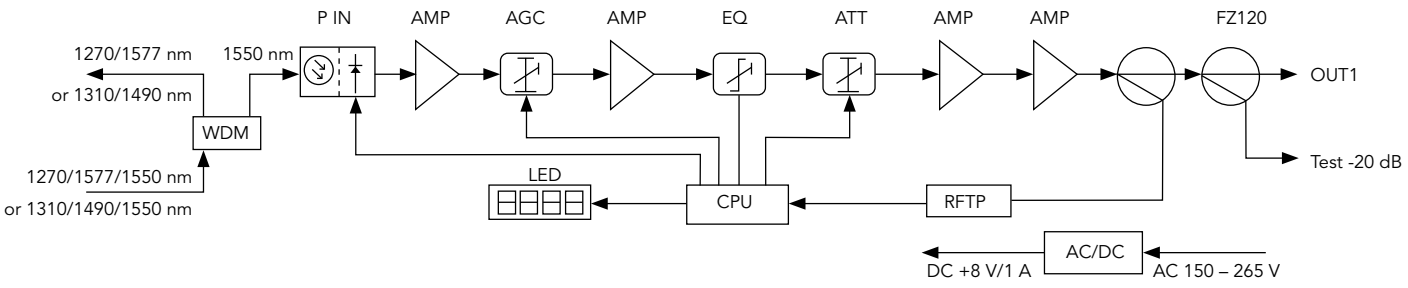
10420060
ORC-01

- Optical status indication by LEDs
- Integrated test point for the RF output
- Very high and constant RF output level within the whole optical input power range by an integrated automatic gain control (AGC)
- Connector types: SC (optical) and F-females
- Dimensions: approx. 190 x 110 x 52 mm (W x H x D)
- Weight: approx. 0,4 kg

Parameter	ORC-01	ORC-01-1550	ORC-01-XPON
Max. optical input power [dBm]	-9 – +2		
Responsivity [A/W]	0,85		
Optical return loss [dB]	45		
Optical connectors input	SC/APC		
Operation bandwidth [MHz]	45 – 1.006		
Ouput level (depending on opt. input power) [dBµV]	108 (-9 – +2 dBm) 110 (-8 – +2 dBm)		
Electrical control EQ range [dB]	0 – 20 (0,5 dB steps)		
Electrical control ATT range [dB]	0 – 20 (0,5 dB steps)		
Flatness [dB]	±0,75		
Output return loss [dB]	16		
RF test point at output [dB typ.]	-20		
Composite Second Order (CSO) [dB]	60*		
Composite Triple Beat (CTB) [dB]	60*		
Carry-to-Noise (C/N) [dB]	51*		
Supply voltage [VAC]	150 … 265		
Operating temperature range [°C]	-40 – +60		
Power consumption [W]	≤ 8		
Operating wavelength [nm]	1100 – 1600	1545 – 1565	1260 – 1650
CATV wavelength [nm]	–	–	1540 – 1560
anyPON pass through wavelengths (SC/PC) [nm]	–	–	1270/1310/1490/1577
Order No.	**10420060**	**10420062**	**10420066**

* At P_{in} = -1 dBm, P_{out} = 106 dBµV, EQ = 8 dB, 42 CH CENELEC, OMI = 3,5 %

Block diagram (example for ORC-01-XPON):



Subject to technical changes. Version 2.2

braun teleCom
Quality on Line.

braun teleCom GmbH
Merkurstr. 3 c
30419 Hanover
Germany

Tel. +49 511 757086
Fax +49 511 753169
info.de.hannover@netceed.com
www.brauntelecom.com