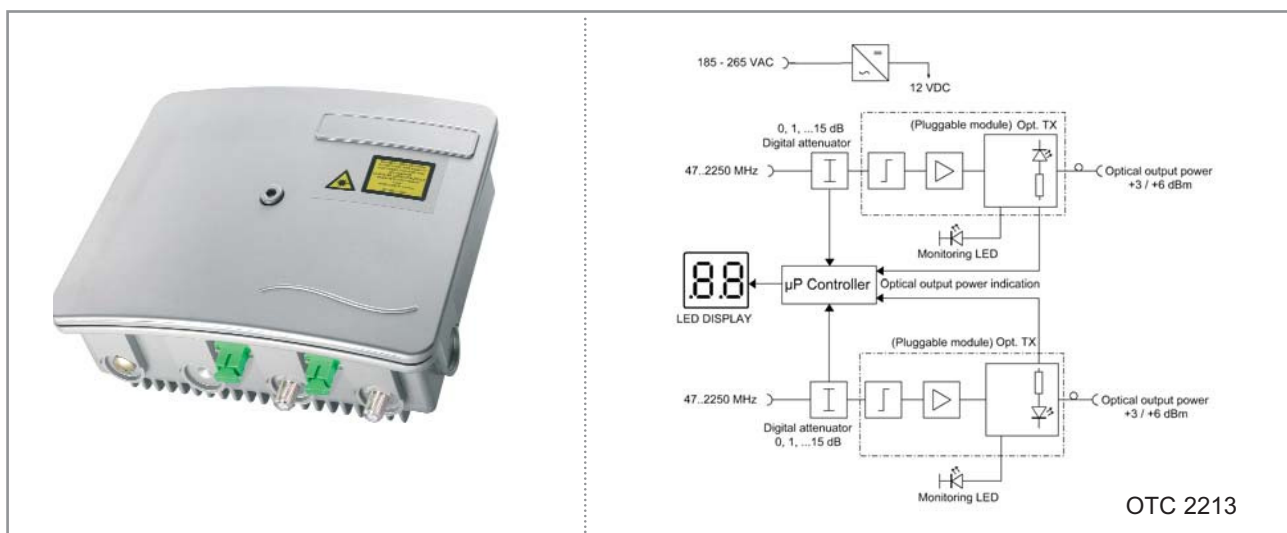


PRODUCT INFORMATION

Optical Compact Twin-Transmitter "OTC"



Application

- Optical transmitter for cable TV (CATV) and/or SAT-IF signals (L-Band) on basis of **OptoLink 2000** platform
- Configurable as "point-to-point" or "point-to-multipoint" transmitter

Characteristic features

- Transparent super wideband converter 47 ... 2.250 MHz
- Applicable for analogue (PAL/NTSC) and digital QAM, COFDM, QPSK, 8PSK TV-signals
- Versions with 1 or 2 transmitter modules
- Excellent linearity because of DFB laser with internal optical isolator
- Electronic control of RF input level attenuation for each module displayed on LED
- Measurement of the optical input power for each module on LED display
- Monitoring LED's for optical output power
- Compact die-cast housing, IP 50
- Compatible with receiver ORC 2100/2200

Article-No.	Type	Description
5700 1532	OTC 2113-6	Optical compact transmitter, single version with 1 transmitter module á 6 dBm
5700 1534	OTC 2213-6	Optical compact transmitter, twin version with 2 transmitter modules á 6 dBm

Optical Compact Twin-Transmitter "OTC"

Preliminary specification OTC 2213-6 / OTC 2113-6

Characteristics	Unit	Specification typ.	Note
Optical wavelength	nm	1310	
Optical output power	dBm	+6 (4mW) indication on LED display	
RF frequency range	MHz	47-2250	
Linearity	dB	± 0,5	47-2250 MHz
RF input level PAL	dBμV	76 ... 91	ATT = 0 ... 15 dB 42 Ch. CENELEC, OMI 4%
RF input level QPSK	dBμV	(66) ... 76 ... 91	ATT = 0 ... 15 dB L-Band full channel load
Maximum input level	dBμV	93	
Laser type		DFB uncooled	with internal optical isolator
RF return loss	dB	< 14	
Optical return loss	dB	< 55	
RF input level attenuator	dB	0...15	Indication and setting by buttons on LED display, 1 dB steps
Monitoring optical output		Green LED on	Output power available
Optical link			with ORC 2200
C/N (PAL)	dB	52	OMI 4%, 42 Ch. CENELEC $P_{opt IN} = 0$ dBm
Optical budget	PAL	dB	8
	QPSK	dB	> 15
Gain	dB	14	C/N = 48 dB BER degradation factor ~10 $P_{opt IN} = 0$ dBm, ATT = 0 dB
Fiber connector		SC/APC	
RF connector		F female	
Operating voltage	VAC	230 (180-244)	
Power consumption	W	6	OTC 2213-6
Operating temperature	°C	+5 ... +50	
Dimensions	mm	225 x 190 x 86	
Weight	Kg	2	

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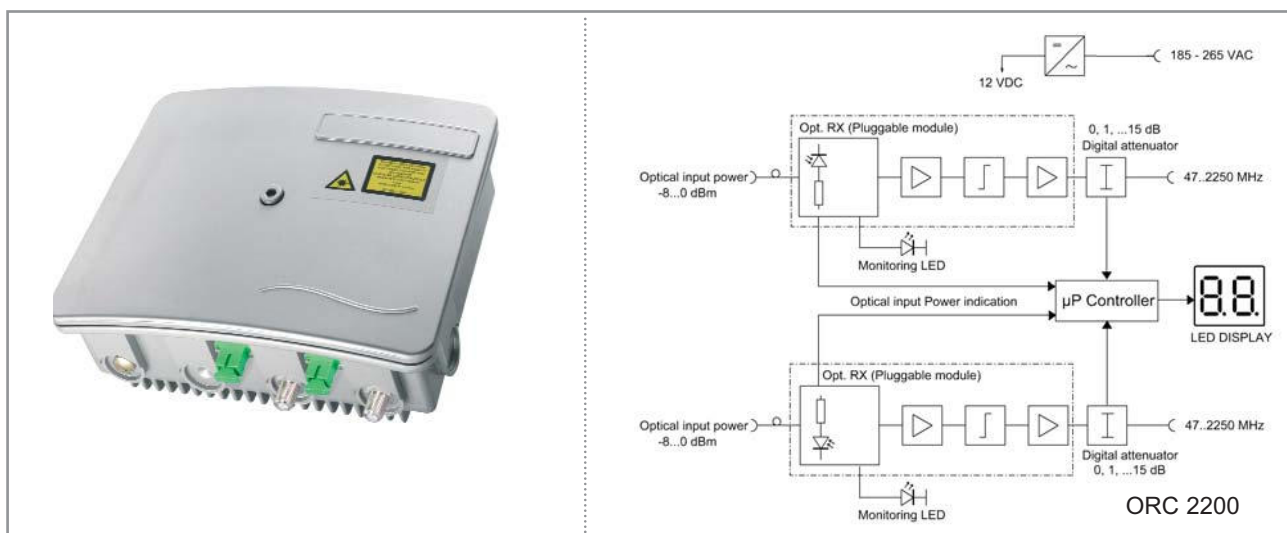
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Specifications subject to change without notice
Version 02/2009

PRODUCT INFORMATION

Optical Compact Twin-Receiver "ORC"



Application

- Optical receiver for cable TV (CATV) and/or SAT-IF signals (C-Band) on basis of **OptoLink2000** platform
- Configurable as "point-to-point" or "point-to-multipoint" links

Characteristic features

- Transparent super wideband converter 47 ... 2.250 MHz
- Applicable for analogue (PAL/NTSC) and digital QAM, COFDM, QPSK, 8PSK TV-signals
- Versions with 1 or 2 receiver modules
- Low noise input
- Electronic control of RF output level attenuation for each module displayed on LED
- Measurement of the optical input power for each module on LED display
- Monitoring LED's
- Compact die-cast housing, IP 50
- Compatible with transmitter OTC 2113/2213

Article-No.	Type	Description
5700 1533	ORC 2200	Optical compact receiver, single version with 1 receiver module
5700 1535	ORC 2100	Optical compact receiver, twin version with 2 receiver modules

Optical Compact Twin-Receiver "ORC"

Preliminary specifications ORC 2200 / 2100

Characteristics	Unit	Specification typ.	Note
Optical wavelength	nm	1290 ... 1600	
Optical input power	dBm	-8 ... 0 indication on LED display	maximum +2 dBm
RF frequency range	MHz	47-2250	
Linearity	dB	± 0,5	47-2250 MHz
RF output level	dBμV	89 ±1	0 dBm, OMI = 4% CTB/CSO > 60 dB / 42 channels
Optical converter		PIN diode	
RF return loss		> 14	up to 2250 MHz
Optical return loss	dB	> 55	
RF output level attenuator	dB	0...15, electronic control, 1 dB steps	Indication and setting on LED display
Optical link			with OTC 2213
C/N (PAL)	dB	52	0 dBm, OMI 4%, 42 Ch. CENELEC
dB	dB	48	-2 dBm, OMI 4%, 42 Ch. CENELEC
Input sensitivity QPSK	dBm	-10	BER degradation factor ~10
Monitoring optical input		input power > -8 dBm	Green LED on
Fiber connector		SC/APC	
RF connector		F female	
Operating voltage	VAC	230 (180-244)	
Power consumption	W	7,5	ORC 2200
Operating temperature	°C	+5 ... +50	
Dimensions	mm	225 x 190 x 86	
Weight	Kg	2	

Germany

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