1310nm Optical Transmitter

The NCM-OT-87-XX series is a line of high-performance 1310 nm DFB laser transmitter. This transmitter is equipped with high linear Ortel DFB laser module to improve the linearity and durability. Automatic or manual gain control is user selectable. All NCM-OT-87-XX's are completely designed, assembled and tested in USA.
Their pre-distortion circuit's are factory configured to ensure optimal signal quality. Standard connector types are SC/APC. An FC/APC connector is available as an option. NCM-OT-87-XX is shipping with monitor software.





Technical Features

- 1310 ± 20nm wavelength
- Up to 14dB (25 mW) output power in 1RU
- High linear DFB laser module enable the high performance
- RF auto increase control circuit enable the input RF signal
- Can be properly work in a dynamic wide range
- Working status are displayed, enable user monitor the working parameters
- Full set working temperature auto-control circuit, ensure the laser device working properly and prolong its life
- Precise optical output power control circuit, increase transfer quality of system
- Switch power supply, wide voltage range
- Powering by 90-250 VAC (50 to 60 Hz)
- Microprocessor monitoring system
- RS232 port available to monitor the main parameter
- 19'' 1 RU standard case
- Ortel 1688-XX DFB Laser
- 47~870MHz bandwidth
- AGC/MGC control selectable

The OT-87-XX 1310 nm Optical Transmitter offers 870MHz bandwidth, Up to 14dB output power, in 1RU, great distortion performance, excellent return loss, superior linearity, automatic or manual gain control.
Ideal to use from 5 to 870MHz CATV HFC.

Made in USA

Unless otherwise noted, the above specifications reflect typical device performance at stated reference levels in the recommended operating configuration(s). Specifications are subject to change without notice.

NCM Supplies Inc.
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1310nm Optical Transmitter

Specifications

Item	Unit	Technical Parameters						
Output power	dBm	8	9	10	11	12	13	14
	mW	6	8	10	13	16	20	25
Optical wavelength	nm	1310 ± 20						
Laser type		DFB laser						
Optical modulation mode		Direct optical modulation						
Connector type		FC/APC OR SC/APC						
Optical reflecting loss	dB	> 45						
Frequency range	MHz	47 ~ 870						
RF input level	dBmV	15 ~ 25						
Flatness in band	dB	±1.0						
RF input impedance	Ω	75						
Input reflecting loss	dB	≥16						
C/N	dB	≥51						
C/CTB	dB	≥65						
C/CSO	dB	≥60						
AGC control range	dB	± 5						
MGC control range	dB	0-10						
Supply voltage	V	AC 110V ~ 250V (60 Hz)						
Consumption	W	30						
Working temperature	°C	-10 ~ +45						
Storage temperature	°C	-30 ~ +70						
Relative humidity	%	Max 95% no condensation						
Dimension	mm	483 (W) × 380 (L) × 44 (H)						

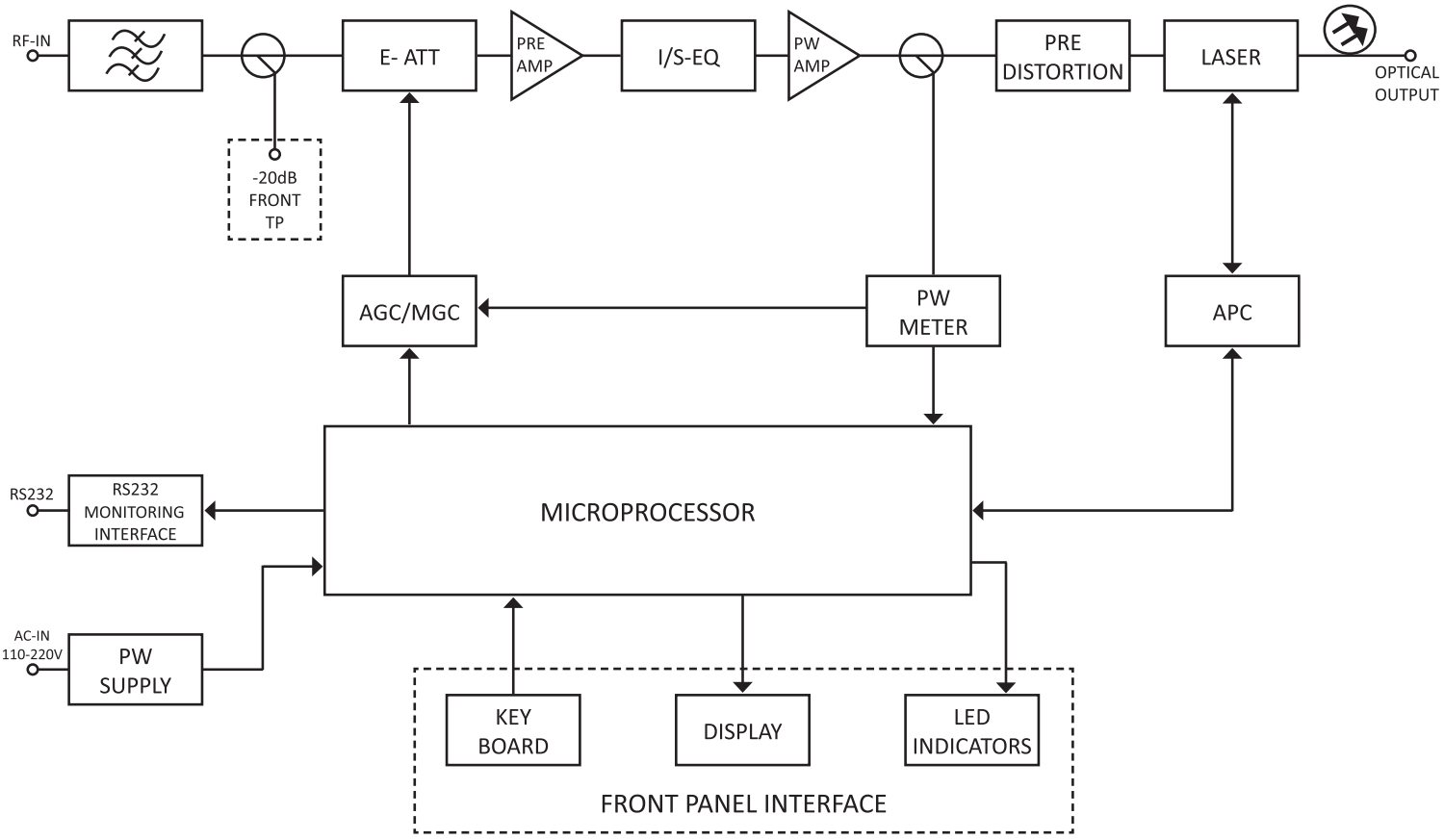
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1310nm Optical Transmitter

Block Diagram



Ordering Information		
Model Number	**Part Number**	**Transmitter Description**
OT-87-10S	10214870132	1310nm Optical Transmitter, 870MHz, SC/APC, 10dB
OT-87-12S	10214870134	1310nm Optical Transmitter, 870MHz, SC/APC, 12dB
OT-87-14S	10214870136	1310nm Optical Transmitter, 870MHz, SC/APC, 14dB

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