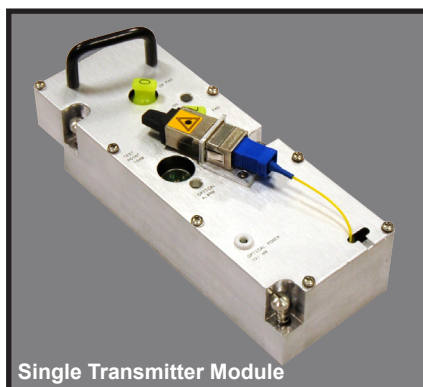


Harmonic* HLN384x Single Return Path Transmitters:

Features & Benefits:

- ▶ 1310 nm, 1550 nm or CWDM, DFB based return path transmitter module
- ▶ Designed to perform better than or equal to the original manufacturer's model
- ▶ Replace failed legacy return path transmitters or improve return path performance by replacing existing F-P transmitter module with a DFB transmitter module
- ▶ Single transmitter modules allow for immediate legacy module replacement or upgrade
- ▶ Target CW carrier level (indicated on the transmitter) allows technician to easily set the drive level to the transmitter for optimized performance
- ▶ RF test point (-10 dB) & plug-in pad attenuator facilitate easy adjustment of RF input drive level
- ▶ Convenient DC test point provides indicator of optical output power (1V/mW)
- ▶ Low power consumption & good heat dissipation increases service life & reliability



Single Transmitter Module

Return Path Transmitter Specifications

SPECIFICATIONS		RETURN TRANSMITTERS: DFB & CWDM
RF INPUT & PERFORMANCE PARAMETERS		
FREQUENCY RESPONSE RANGE (+/- 1.0 dB)	5 - 220 MHz	
NPR (DFB/CWDM)*	> 15 dB over 41 dB NPR*	
INPUT RETURN LOSS	> 16 dB	
OPTICAL OUTPUT PARAMETERS		
OPTICAL OUTPUT (DFB)	1.0, 2.0 or 3.0 mW @ 1310 nm / 2.5 mW @ 1550 nm CWDM	
RETURN LOSS	> 60 dB with APC Connectors	
OPTICAL CONNECTOR	SC/APC; FC/APC; SC/UPC; FC/UPC	
USER INTERFACE		
RF INPUT TEST POINT	-10 dB (+/- 1 dB)	
INPUT LEVEL CONTROL	SXP Pad	
OPTICAL OUTPUT LEVEL	1V/mW	
LASER ON INDICATOR	LED	
OPTICAL ALARM	LED	
ELECTRICAL, ENVIRONMENTAL & MECHANICAL PARAMETERS		
OPERATING TEMPERATURE RANGE	-40°C to +70°C (-40°F to +158°F) (temperature at mounting plate)	
POWERING	Single Transmitter Module: 24 VDC, 65mA	
NOTES:		
* As measured with 10 dB of fiber and 6 channel 35 MHz loading, with +3 dBmV per channel RF input (i.e. -7 dBmV @ the RF input test point). Call factory for assistance in determining optimum drive levels for your system.		

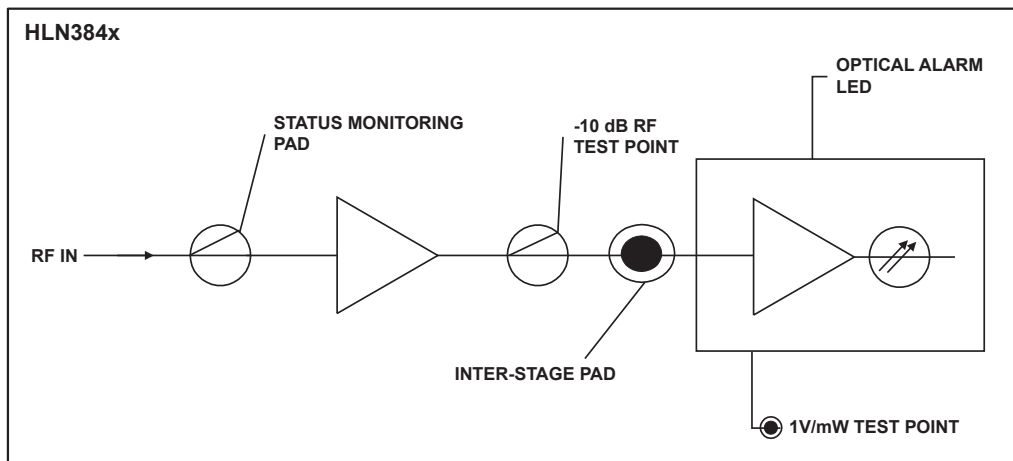
*The Harmonic product name is the property of its owner in the United States and/or other countries.

Harmonic* HLN384x Single Return Path Transmitters:

Ordering Information

Single Transmitter Modules:	
1310 nm DFB	1550 nm and CWDM DFB, 2.5 mW
HEHLN3813	HEHLN38__2.5
<ul style="list-style-type: none"> 1 = 1 mW 2 = 2 mW 3 = 3 mW 	<ul style="list-style-type: none"> SA = SC/APC SU = SC/UPC FA = FC/APC FU = FC/UPC
<ul style="list-style-type: none"> SA = SC/APC SU = SC/UPC FA = FC/APC FU = FC/UPC 	<ul style="list-style-type: none"> 15 = 1550 nm 47 = 1470 nm 49 = 1490 nm 51 = 1510 nm 53 = 1530 nm

Return Path Transmitter Functional Schematic



Specifications subject to change without notice.