

# **FIBER LINE+** **Optical Transmitter** **LT 87**



Product information



## **Description**

The LT 87 series product line is a family of high performance 1550 nm externally modulated CATV fiber optic transmitters. This series of transmitters couple high optical output powers in a convenient 1 RU housing with low optical linewidth resulting in unmatched performance. The advanced set of features of the product family allows these transmitters to be quickly optimized in the field for any link or application without the need to deploy specifically tuned transmitters.

## **Applications:**

- High performance supertrunking links
- High power distribution networks
- Redundant ring architectures
- FTTx networks

*... a link to the future*



# FIBER LINE+

## Optical Transmitter LT 87

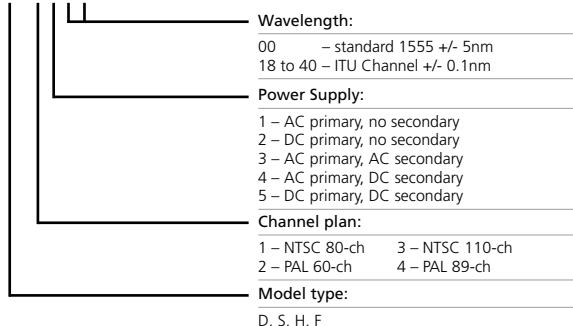
- Single or Dual Optical Outputs
- Dual Power Supplies, Redundant & Hot Swappable
- Front Panel RF Test Point
- SNMP Control Interface
- Vacuum Fluorescent Status Display
- OMI / RF Gain Adjustment
- AGC Select: CW, Video, Manual (No AGC)
- Industry Leading Field Adjustable SBS Suppression
- Field Adjustable Electronic Dispersion Compensation (EDC)

PROPERTY	UNITS	MODELS				
PERFORMANCE <small>Notes 1,2,3,4</small>		LT 87 D	LT 87 S	LT 87 H	LT 87 F	
Specified Link Length <small>Note 5</small>	L (km)	40	65	80	20	
Output Power	Po (dBm)	11.0	7.0/7.0	7.0/7.0	7.0/7.0	Min.
Noise Bandwidth	BW (MHz)	5	5	5	5	
SBS Suppression	(dBm)	12.0	16.0	18.0	20.0	Min.
Carrier to Noise Ratio	CNR (dB)	54.0	53.0	52.0	48.0	Min.
Composite Second Order	CSO (dBc)	-65	-65	-65	-58	Max.
Composite Triple Beat	CTB (dBc)	-65	-65	-65	-58	Max. @ +25°C
PROPERTY		REQUIREMENT		COMMENTS		
Wavelength		1555 +/-5 nm		ITU-grid available		
Input Power Range		78 dBµV/ch		60 PAL channels		
Frequency Range		45 MHz – 1003 MHz				
Flatness		+/- 0.50 dB		45 MHz - 550 MHz		
		+/- 0.75 dB		45 MHz - 1003 MHz		
Input impedance		75 Ω				
Input Return Loss		16dB min		45 MHz - 1003 MHz		
Optical Connector		SC/APC		Other styles available		
Monitoring Interfaces		100 Base-T Ethernet (SNMP) Rear Panel RS-232 interface VFD Screen Front Panel Controls		VFD- (Vacuum Fluorescent Display)		
Operating Temperature		0°C to +50°C				
Storage Temperature		-20°C to +70°C				
Power Consumption		65W max				
Operating Humidity		20% to 85% Non-condensing				
Supply Range		90 to 265 VAC, 50/60 Hz; +/- (36 – 72) VDC				
Dimensions		48.26cm W x 48.17cm D x 4.37cm H (width includes front panel ears, depth includes fans & front panel)				
<small>Note 1: Unless stated otherwise all specifications apply over full temperature range with no digital loading.            Note 2: Unless stated otherwise specifications apply for nominal RF input level as defined below, after 30 minute stabilization period.            Note 3: Specifications separated by a slash are port1 / port 2.            Note 4: Units are tested per the Test / Link Configuration Table            Note 5: In combination with additional EDFA</small>						

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### Order information

LT 87 X xxxx



Not all configurations are possible. Please contact your WISI sales representative for assistance.

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