

LaserLite Model OTLT-87XX-N7-SA L-Band DWDM Transmitter

Features / Benefits

Rugged, compact, and cost-effective L-Band fiber optic DWDM transmitter.

Self-contained, low-profile, rugged package designed for standalone L-band applications.

Wide bandwidth; 500-3,000MHz supports all L-band transport applications.

Optical output power of +10dBm/10mW using a DFB laser.

External test points for Laser Current and Laser Power.

Transmits in the ITU DWDM wavelength range.

Field-configurable front or rear panel optical connector; SC/APC standard (FC/APC option).



The Olson Technology **LaserLite Model OTLT-87XX-N7-SA** is a high quality, full featured, cost effective DWDM L-Band transmitter designed around the latest optical component technology to reliably deliver L-Band transport. The design incorporates a DWDM DFB laser that offers +10dBm optical output and stable ITU channel performance.

The OTLT-87XX-N7-SA is a rugged, self-contained device with exterior RF and optical connections. The field-configurable SC/APC (or optional FC/APC) optical output connector can be mounted on the front panel or rear panel of the unit. The OTLT-87XX-N7-SA is forced-air cooled via an external high-MTBF fan, which can be field-replaced without interrupting operation.

The unit features a unique provision that allows the unit to perform as a standalone transmitter or as a rackmount transmitter with the additional of the Model OTLL-RMKIT-1 (optional) mounting rack. Up to three (3) OTLT-87XX-N7-SA's can be mounted in a 1RU (1.75") 19" EIA space with each kit.

System Specifications

Optical Characteristics (with SM 9/125µm Fiber)

	Min	Typ	Max	Units
Optical Output Power (DFB)		+10.0		dBm
		10		mW
Optical Connector (Standard) (Optional)		SC/APC FC/APC		

RF and System Characteristics

	Min	Typ	Max	Units
Frequency	500		3,000	MHz
Freq. Response (Any 500MHz window)	-1		+1	dB
Input Return Loss	10			dB
Impedance		75		Ohms

Electrical Characteristics

	Min	Typ	Max	Units
Power Requirements (@50-60Hz)	-90		+240	V _{AC}
Power Connector		10		W
Fuse (5x20 Slo Blo)		IEC 320		A

Physical Characteristics

	Min	Typ	Max	Units
Weight		1.5		lbs.
		0.8		kg
Dimensions (W x H x D)	5-15/32 x 1-3/8 x 7-5/8			in.

Ordering Information

Model OTLT-87XX-N7-SA	Transmitter, 10MHz-3GHz, +10dBm Optical Output, 75Ω, SC/APC Connector
Model OTLT-87XX-N7-FA	Transmitter, 10MHz-3GHz, +10dBm Optical Output, 75Ω, FC/APC Connector
	<i>Where XX = ITU Channel NUmber (22 - 46)</i>
Model OTLL-RMKIT-1	Optional 1RU Mounting Rack; Holds Up to Three (3) Transmitters



Three (3) OTLT-87XX-N7-SA Transmitters on an Optional OTLL-RMKIT-1