

LaserLite Model OTLT-87XX-40-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; 500-3,600MHz (Guaranteed), 100-4,000 MHz (Typical) supports all multi-stacked 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-40-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-40-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-40-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-40-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)	+9.0	+10.0	+11.0	dBm
	8	10	12.5	mW
Optical Connector (Standard) (Optional)		SC/APC FC/APC		

RF and System Characteristics

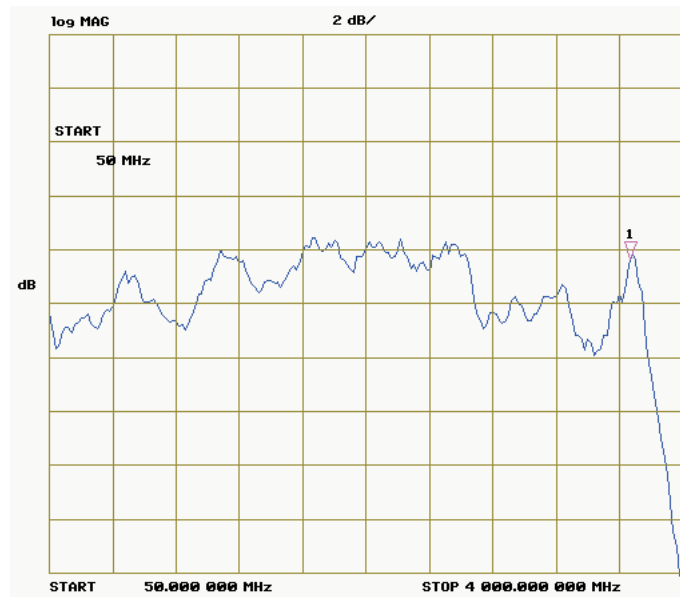
	Min	Typ	Max	Units
Frequency Resp (Typical)	100		4,000	MHz
Frequency Resp (Guaranteed)	500		3,600	MHz
Freq. Response (Any 500MHz window)	-2		+2	dB
Input Return Loss	10			dB
Impedance		75		Ohms

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
		0.5		A

Physical Characteristics

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



Typical Frequency Response of the OTLT-87XX-40-SA

Ordering Information

- Model OTLT-87XX-40-SA Transmitter, 10MHz-4GHz, +10dBm Optical Output, 75Ω, SC/APC Connector
- Model OTLT-87XX-40-FA Transmitter, 10MHz-4GHz, +10dBm Optical Output, 75Ω, FC/APC Connector
- Where XX = ITU Channel Number (22 - 46)*
- Model OTLL-RMKIT-1 Optional 1RU Mounting Rack; Holds Up to Three (3) Transmitters



Three (3) OTLT-87XX-40-SA Transmitters on an Optional OTLL-RMKIT-1