

# ROF-ELD series



## 905nm straight-tuned light source module

### Product description

The ROF-ELD direct-tuning laser module integrates high-power laser diode, drive circuit and temperature control circuit. The module has 20Mbit / s modulation rate, excellent modulation stability, low relative noise intensity and good output optical power stability. It can be used in space optical communications、digital communications.

### Features

- Output average optical power is greater than 200mw
- Modulation rate is up to 20Mbit/s high extinction ratio
- Pigtail fiber output
- Low consumption
- Compact structure,module package
- DC power supply

### Applications

- Special light transmission system
- Seed light source
- Space optical communication

### Performance parameters

Parameter	Symbol	Min	Typ	Max	Unit
Central wavelength	$\lambda$		905		nm
Peak wavelength tolerance			$\pm 10$		nm
Output optical power	Po	200			mW
3dBspectral width	$\Delta\lambda$		5	12	nm
Rise /fall time	rise/fall		1.0		ns
Modulation bandwidth	F	20			Mbit/s
Input electrical signal amplitude (TTL)			3.3		V
Light extinction ratio			12		dB
Core diameter			62.5		$\mu\text{m}$
Numerical aperture			0.27		NA
Operating current	I		500		mA
Specification		Module			

Power supply		DC 3.3V
Input electric signal interface		SMA
Operating mode		Externally electric signal modulate directly
Optical connector		SC/PC or user specified

\*\* test conditions : CW, Top=25℃

**limit conditions**

Parameter	Symbol	Unit	Min	Typ	Max
Input signal voltage	VR	V		3.3	4
Operating current	IPD	A		0.5	1
Operating current	Vop	V		DC 3.3	DC 4
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

\*please contact our seller if you have special require

**Ordering information**

ROF	ELD	905	X	X	200	X	X
	Direct-tuning laser	Operating wavelength: 905nm	Modulation rate: 1--10Mbit/s 2--20Mbit/s	Package: M---module D---desktop	Output power : 200---200mW	Pigtail fiber: SM--- SMF	Optical fiber splice : SC FC SP---user specified

