

# Liquid Crystal Tunable Filter Cell

1. Part Number: LCTOF1550-E1
2. Performance Characteristics

Parameter	Symbol	Unit	Value			Note
			Min.	Typ.	Max.	
Wavelength Range	WL	nm	1530~1565			3dB filter bandwidth
Storage Temperature	T <sub>stg</sub>	°C	-40		+85	
Operating Temperature	T <sub>op</sub>	°C	+24	+25	+26	Not sensitive in this temperature range
Insertion Loss	IL	dB		1	1.2	
3dB band width	BW	nm		0.8	0.9	
Tuning Range	TUR	nm	1533~1560			Tuner required
Tuning Stability		MHz		100		TBD
Control Voltage	V <sub>ctl</sub>	V <sub>rms</sub>			15	Square wave, 2KHz to 100KHz, 0V mean voltage
Response Time, rise	t <sub>rise</sub>	ms			500	
Response Time, fall	t <sub>fall</sub>	ms			500	
Incident Optical Power	P <sub>in</sub>	dBm	10		27	
Electrical Power Consumption		mW			5	LC cell power consumption only
Optical Surface Flatness			λ/4			@633nm

### 3. Mechanical Dimensions

