



GENERAL SPECIFICATIONS		INDIVIDUAL SPECIFICATIONS		PAIR SPECIFICATIONS	
CENTRAL WAVELENGTH	850 nm	BEAM DIAMETER	≤0.5mm	WORKING DISTANCE	15 ±5 mm
COLLIMATOR BANDWIDTH	± 20 nm	BEAM DIVERGENCE	≤0.25°		
MAX. TENSILE LOAD	5 N	INSERTION LOSS	<0.1 dB**		
OPERATING TEMPERATURE	0 to 60°C	RETURN LOSS** (TYP.)	≥55 dB	PAIR INSERTION LOSS*	<0.35 dB**
STORAGE TEMPERATURE	-40 to 85°C	MAX. OPTICAL POWER (CW)	300 mW		

*PAIR SPACING 20mm, REFERENCE POWER MEASURED BETWEEN PAIR AND COMPARED TO COUPLED POWER

**SPECIFICATIONS GIVEN BASED ON NON-CONNECTORIZED MODELS

INCLUDED BUT NOT SHOWN:

- PROTECTIVE DUST CAP

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION				THORLABS www.thorlabs.com	
NAME	DATE				
DRAWN	CB	31/JAN/12	SM, GRIN LENS FIBER COLLIMATOR, 850 nm, FC/PC CONNECTOR		
APPROVAL	PH	10/APR/23	MATERIAL		REV
COPYRIGHT © 2023 BY THORLABS			N/A		H
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS			ITEM #	APPROX WEIGHT	
			50-850-FC	6.3g	