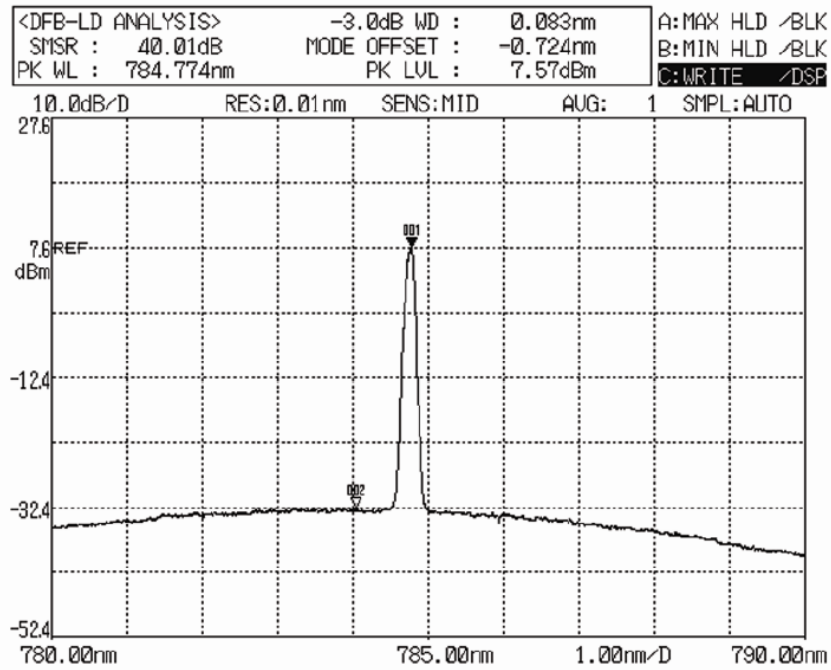


## Raman Fiber Coupled Laser Source OEM Module Specification

Key performance Features	Application
<ul style="list-style-type: none"> <li>• Narrow Line width &lt; 0.1nm</li> <li>• High Power Laser Source up 350 mw</li> <li>• Excellent wavelength stability <math>\pm 0.005</math> nm</li> <li>• Excellent power stability <math>\pm 0.01\%</math></li> <li>• Easy control output power via Uart port</li> <li>• Fast laser light emission turn on/ off through external TTL voltage trigger, meanwhile keeping internal temperature control, maximum laser protection.</li> </ul>	<ul style="list-style-type: none"> <li>❖ Embedded portable Raman spectrometer</li> <li>❖ Combine to a Raman spectroscopy system.</li> <li>❖ It provides users an economical solution to create a fully functionality Raman spectroscopy system.</li> <li>❖ To be easy embedded portable Raman spectrometer or spectroscopy system.</li> <li>❖ Biotechnology application.</li> <li>❖ Medical Diagnostics.</li> <li>❖ Polymer Analysis.</li> <li>❖ Generally Research &amp; Development Lab.</li> </ul>

<b>Specifications</b>			
Optical Parameters	Minimum	Typical	Maximum
Wavelength	784.5 nm	785 nm	786 nm
Spectral line width	0.07nm	0.1nm	0.15nm
Laser light output power	0	300 mw	350 mw
Light output stability		15 min: $\pm 0.01\%$ 24hr: $\pm 0.05\%$	
wavelength stability		$\pm 0.005$ nm	
Adjustment range	0	300 mw	350 mw

Optical Parameters	Minimum	Typical	Maximum
Fiber type		multimode	
Fiber coupler connector		FC/PC	
<b>Electrical Parameters</b>			
DC Input	5V/2A	5V/2A	9V/1.2A
Power Consumption	1w	5 W	6 W
Communication Interface		Uart 3.3V/5V	
Communication protocols		ASCII code	
External trigger	3.3V	5V TTL Voltage	5.1V
DC adjustment resolution		1 mA	
<b>Reliability</b>			
Storage Temperature		-10~70 °C	
Operating Temperature		-10~50 °C	
<b>Mechanical parameters</b>			
Dimension		100 x 78 x 26 mm	
Weight		0.2KG	



**Typical 785 nm SS Laser Spectrum (SMSR > 40 dB)**