Datasheet

Dual Wavelength Raman Spectroscopy Probe | ATR20106

Features

- Supports two excitation wavelengths: any two of 532, 638, 785, 830, 1064nm
- Dual wavelength excitation wavelength coaxial optical path, same position excitation
- Laser transmission efficiency:>75%
- Raman signal optical efficiency:>82%
- High reliability: All solid state design without mobile optical components
- Compact in size, easy to pick up and place
- Customizable stimulation methods from different angles
- OD>8
- Support invasive long rod probes
- Highly corrosion-resistant: 316L stainless steel, optional Hastelloy alloy
- 300 ℃ high-temperature resistant version available (ATR20106HT)

Description

ATR20106 is optosky's latest designed dual wavelength Raman probe, which uses a specially designed optical path for dual wavelength Raman spectroscopy and can measure Raman signals of two excitation wavelengths in situ. ATR20106 also has a built-in high-efficiency Raman processing optical path, with a high suppression rate of OD>8 for Rayleigh scattering.

Type	Explain
ATR20106	Standard version
ATR20106CG	Invasive Long Rod Dual Wavelength Raman Probe
ATR20106HT	High temperature resistant version at 300 ℃(High-Temperature)
ATR20106AC	Corrosion resistant version （Anti-Corrosion)

Application

- Raman spectrometer
- Reaction process monitoring
- Detection of substances at the bottom of the container

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1. ATR20106 Wavelength List and Selection Guide

Type	Adaptive Raman excitation wavelength
ATR20106-532+785	Dual wavelength Raman probe： 532nm+785 nm
ATR20106-532+1064	Dual wavelength Raman probe： 532+1064 nm
ATR20106-532+638	Dual wavelength Raman probe： 532+638 nm
ATR20106-785+1064	Dual wavelength Raman probe： 785+1064 nm
ATR20106-638+1064	Dual wavelength Raman probe： 638+1064 nm

2. ATR20106 Parameter

Project	Index	Remark
Pre excitation working distance	5.5 ± 0.5 mm	
Excitation wavelength	Any two wavelengths in 532, 638, 785, 830, 1064nm	
Excited luminescence insertion loss	<25%	
Signal light insertion loss	<18%	
Wavenumber range	150~8000 cm-1	
Exciting light spot size	Ø150±30 mm	
Ruili scattering suppression ability	OD>8	
Raman signal fiber	200/220 um multimode fiber; SMA905 interface	Fiber optic coupling
Laser fiber	105/125 um multimode fiber FC/PC fiber optic interface	Fiber optic coupling
Fiber length	1.5m	Other lengths can be customized, up to 100m in length

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3. Physical image of ATR20106 dual wavelength Raman probe

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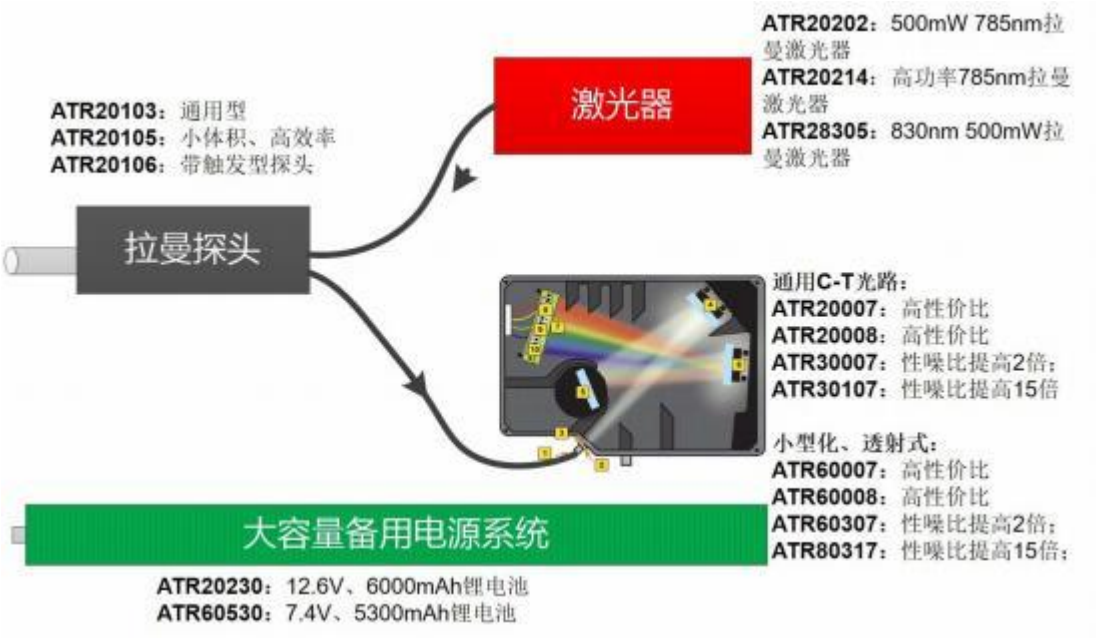
4. ATR20106 Boundary Dimensions



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