

BaySpec's **MiniLite® 532nm Multi-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities** in the 532nm wavelength region. Devices benefit from low-cost field proven telecommunication components.



Card-mount option with Heat-sink

Part Number:

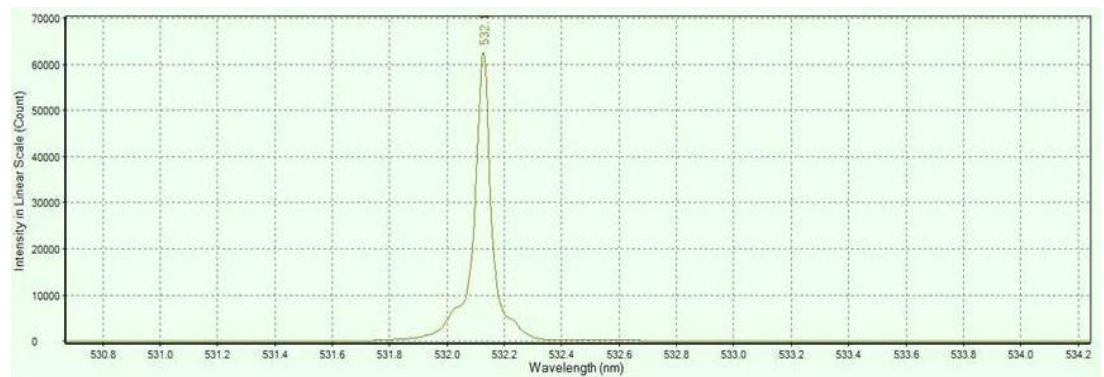
- MNLS-C-MM-0532 (Card-mount option)
- MNLS-B-MM-0532 (Bench-top option)

Key Features:

- ✓ Fiber optic coupled, narrow spectral coverage
- ✓ Compact size with, ready for OEM intergration
- ✓ Solid state light source, reliable operation in harsh environments
- ✓ Operates over wide -5 to +55°C temperature range
- ✓ Operates in high +85% relative humidity environments
- ✓ Center wavelength 532nm



Bench-top option



Applications:

- ✓ Raman Spectroscopy
- ✓ Confocal Microscopy
- ✓ Medical Diagnostics
- ✓ Fiber Optic Sensing
- ✓ VIS-NIR Spectroscopy
- ✓ T&M Source
- ✓ Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA			0.5
Operating Forward Current	mA			1.2
Operating Forward Voltage	V			2.1
Fiber Coupled Output Power	mW		80	
Center Wavelength	nm	531	532	533
Spectral Width (FWHM)	nm		0.3	
Wavelength stability (+/-)	pm		50	
TEC Current	A			2
TEC Voltage	V			4
Temperature stability of laser	°C			0.1
Fiber Type	105 µm core Multi-mode Fiber, N.A. 0.22			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice

BaySpec's **MiniLite® 647nm Multi-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities** in the **647nm wavelength region**. Devices benefit from **low-cost field proven telecommunication components**.

Part Number:

- MNLS-C-MM-0647 (Card-mount option)
- MNLS-B-MM-0647 (Bench-top option)

Key Features:

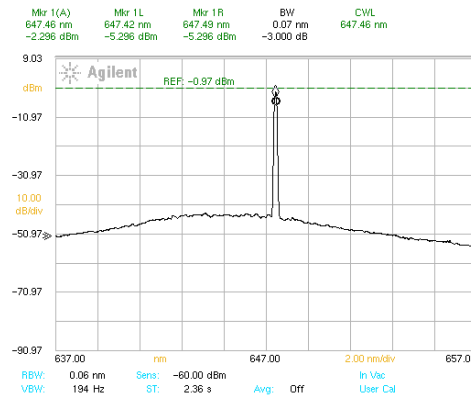
- ✓ Fiber optic coupled, narrow spectral coverage
- ✓ Compact size with, ready for OEM intergration
- ✓ Solid state light source, reliable operation in harsh environments
- ✓ Operates over wide -5 to +55°C temperature range
- ✓ Operates in high +85% relative humidity environments
- ✓ Center wavelength 647nm



Card-mount option with Heat-sink



Bench-top option



Applications:

- ✓ Raman Spectroscopy
- ✓ Confocal Microscopy
- ✓ Medical Diagnostics
- ✓ Fiber Optic Sensing
- ✓ VIS-NIR Spectroscopy
- ✓ T&M Source
- ✓ Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA		700	
Operating Forward Current	mA		1550	1850
Operating Forward Voltage	V		2.0	2.1
Fiber Coupled Output Power	mW		350	400
Center Wavelength	nm	646	647	648
Spectral Width (FWHM)	nm	0.05	0.08	0.18
Wavelength stability (+/-)	pm	5	10	50
TEC Current	A			2
TEC Voltage	V			4
Temperature stability of laser	°C			0.1
Side Mode Suppression Ratio	dB		45	
Fiber Type	105 µm Multi-mode Fiber, N.A. 0.22			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice

BaySpec's **MiniLite® 785nm Multi-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities** in the 785nm wavelength region. Devices benefit from low-cost field proven telecommunication components.

Part Number:

MNLS-C-MM-0785 (Card-mount option)

MNLS-B-MM-0785 (Bench-top option)

Key Features:

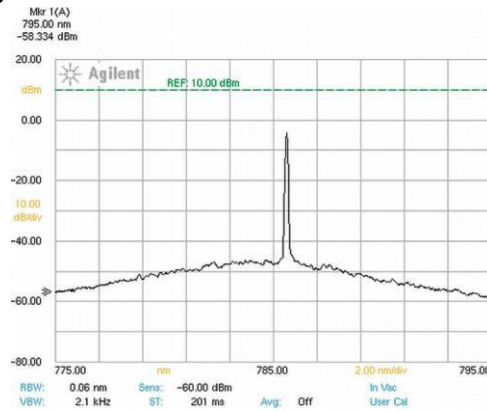
- Fiber optic coupled, narrow spectral coverage
- Compact size with, ready for OEM intergration
- Solid state light source, reliable operation in harsh environments
- Operates over wide -5 to +55°C temperature range
- Operates in high +85% relative humidity environments
- Center wavelength 785nm



Card-mount option with Heat-sink



Bench-top option



Applications:

- Raman Spectroscopy
- Confocal Microscopy
- Medical Diagnostics
- Fiber Optic Sensing
- VIS-NIR Spectroscopy
- T&M Source
- Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA			700
Operating Forward Current	mA			2000
Operating Forward Voltage	V		1.8	2.5
Fiber Coupled Output Power	mW		700	800
Center Wavelength	nm	784	785	786
Spectral Width (FWHM)	nm	0.05	0.08	0.18
Wavelength stability (+/-)	pm	5	10	50
TEC Current	A			2
TEC Voltage	V			4
Temperature stability of laser	°C			0.1
Side Mode Suppression Ratio	dB		40	
Fiber Type	105 µm Multi-mode Fiber, N.A. 0.22			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice

BaySpec's **MiniLite® 785nm Single-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities** in the 785nm wavelength region. Devices benefit from low-cost field proven telecommunication components.

Part Number:

- MNLS-C-SM-0785 (Card-mount option)
- MNLS-B-SM-0785 (Bench-top option)

Key Features:

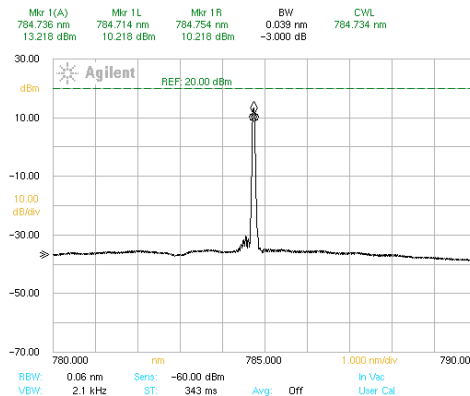
- ✓ Fiber optic coupled, narrow spectral coverage
- ✓ Compact size with, ready for OEM intergration
- ✓ Solid state light source, reliable operation in harsh environments
- ✓ Operates over wide -5 to +55°C temperature range
- ✓ Operates in high +85% relative humidity environments
- ✓ Center wavelength 785nm



Card-mount option with Heat-sink



Bench-top option



Applications:

- ✓ Raman Spectroscopy
- ✓ Confocal Microscopy
- ✓ Medical Diagnostics
- ✓ Fiber Optic Sensing
- ✓ VIS-NIR Spectroscopy
- ✓ T&M Source
- ✓ Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA			70
Operating Forward Current	mA			110
Operating Forward Voltage	V		2	
Fiber Coupled Output Power	mW		40	
Center Wavelength	nm		785	
Spectral Width (FWHM)	nm		0.06	
Wavelength stability (+/-)	pm	5	10	30
TEC Current	A			0.4
TEC Voltage	V			0.8
Temperature stability of laser	°C			0.1
Side Mode Suppression Ratio	dB		30	
Fiber Type	5.5/125/900 μm Single-mode Fiber or PM Fiber			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice

BaySpec's **MiniLite® 1064nm Multi-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities** in the 1064nm wavelength region. Devices benefit from low-cost field proven telecommunication components.

Part Number:

MNLS-C-MM-1064 (Card-mount option)

MNLS-B-MM-1064 (Bench-top option)

Key Features:

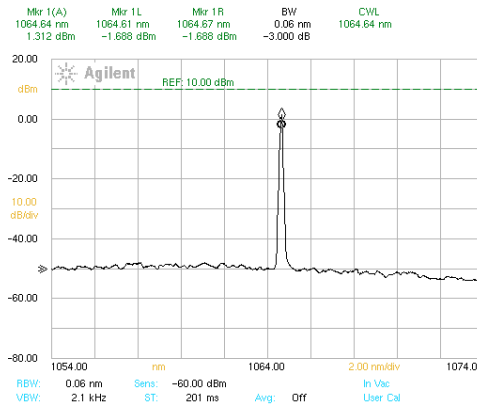
- ✓ Fiber optic coupled, narrow spectral coverage
- ✓ Compact size with, ready for OEM intergration
- ✓ Solid state light source, reliable operation in harsh environments
- ✓ Operates over wide -5 to +55°C temperature range
- ✓ Operates in high +85% relative humidity environments
- ✓ Center wavelength 1064nm



Card-mount option with Heat-sink



Bench-top option



Applications:

- ✓ Raman Spectroscopy
- ✓ Confocal Microscopy
- ✓ Medical Diagnostics
- ✓ Fiber Optic Sensing
- ✓ VIS-NIR Spectroscopy
- ✓ T&M Source
- ✓ Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA	10		250
Operating Forward Current	mA			1200
Operating Forward Voltage	V		1.5	2.5
Fiber Coupled Output Power	mW			750
Center Wavelength	nm		1064	
Spectral Width (FWHM)	nm	0.05	0.08	0.18
Wavelength stability (+/-)	pm	5	10	30
TEC Current	A			1.5
TEC Voltage	V			3.0
Temperature stability of laser	°C			0.1
Side Mode Suppression Ratio	dB		30	
Fiber Type	Multi-mode PM Fiber			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice

BaySpec's **MiniLite® 1064nm Single-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities in the 1064nm wavelength region.** Devices benefit from low-cost field proven telecommunication components.

Part Number:

- MNLS-C-SM-1064 (Card-mount option)
- MNLS-B-SM-1064 (Bench-top option)

Key Features:

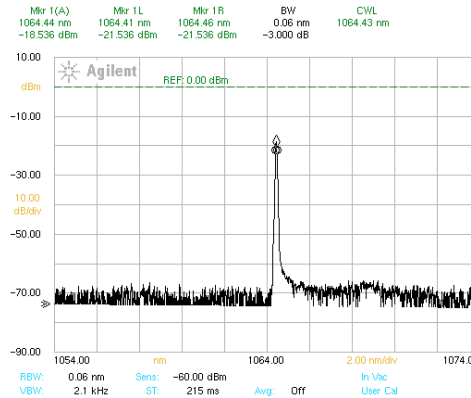
- ✓ Fiber optic coupled, narrow spectral coverage
- ✓ Compact size with, ready for OEM intergration
- ✓ Solid state light source, reliable operation in harsh environments
- ✓ Operates over wide -5 to +55°C temperature range
- ✓ Operates in high +85% relative humidity environments
- ✓ Center wavelength 1064nm



Card-mount option with Heat-sink



Bench-top option



Applications:

- ✓ Raman Spectroscopy
- ✓ Confocal Microscopy
- ✓ Medical Diagnostics
- ✓ Fiber Optic Sensing
- ✓ VIS-NIR Spectroscopy
- ✓ T&M Source
- ✓ Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA	10		70
Operating Forward Current	mA			1000
Operating Forward Voltage	V		1.5	2.5
Fiber Coupled Output Power	mW	250	400	499
Center Wavelength	nm		1064	
Spectral Width (FWHM)	nm	0.05	0.08	0.18
Wavelength stability (+/-)	pm	5	10	30
TEC Current	A			1.5
TEC Voltage	V			3.0
Temperature stability of laser	°C			0.1
Side Mode Suppression Ratio	dB		30	
Fiber Type	Single-mode PM Fiber			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice

BaySpec's **MiniLite® 1310nm Single-mode fiber lasers** are designed to enhance **Analytical Raman Spectroscopy and Test & Measurement capabilities** in the 1310nm wavelength region. Devices benefit from low-cost field proven telecommunication components.

Part Number:

- MNLS-C-SM-1310 (Card-mount option)
- MNLS-B-SM-1310 (Bench-top option)

Key Features:

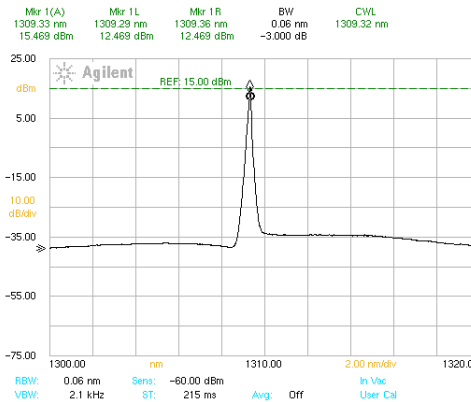
- ✓ Fiber optic coupled, narrow spectral coverage
- ✓ Compact size with, ready for OEM intergration
- ✓ Solid state light source, reliable operation in harsh environments
- ✓ Operates over wide -5 to +55°C temperature range
- ✓ Operates in high +85% relative humidity environments
- ✓ Center wavelength 1310nm



Card-mount option with Heat-sink



Bench-top option



Applications:

- ✓ Raman Spectroscopy
- ✓ Confocal Microscopy
- ✓ Medical Diagnostics
- ✓ Fiber Optic Sensing
- ✓ VIS-NIR Spectroscopy
- ✓ T&M Source
- ✓ Laboratory Source

Parameter	Unit	Min.	Typical	Max.
Threshold Current	mA		120	200
Operating Forward Current	mA		1100	1300
Operating Forward Voltage	V		1.6	1.8
Fiber Coupled Output Power	mW	250		
Center Wavelength	nm	1309	1310	1311
Spectral Width (FWHM)	nm	0.1		2
Wavelength stability (+/-)	pm	5	10	30
TEC Current	A			3
TEC Voltage	V			4
Temperature stability of laser	°C			0.1
Side Mode Suppression Ratio	dB		30	
Fiber Type	Single-mode PM Fiber			
Power Supply	100~220V AC for Bench-top 5V DC for Card-mount			
Size	Ultra-compact: 120 x 95 x 26 mm ³ Benchtop: 212 x 88 x 203 mm ³			

Specifications are subject to change without notice