

selling by OKABE

You will find Very New From Now On!

1. Spectrum Single of Visible LD/Fiber!
2. Super Stabilized Power LD/Fiber Unit !
3. High Power Blue from 7 μ m core !
4. Super Low Speckles of Orange Laser!
5. Color (Wavelength) Exchangeable !

crafted by ORSA

ORSA comes from Latin "From Now On" and also short for

Optical Research & System Architect

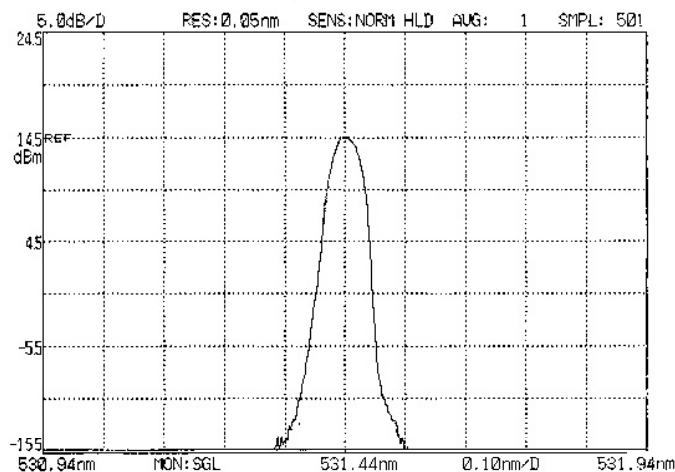
We have been manufacturing unique Laser & Fiber Assemblies since 1987.

Please contact " kenichi_okabe@okabe-ss.co.jp " by e-mail.

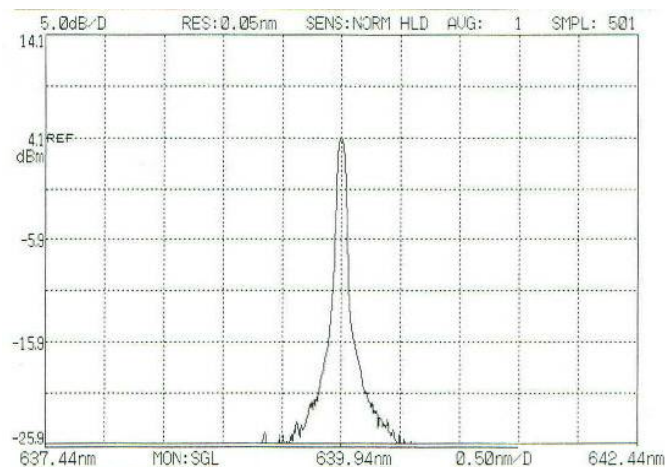


Spectrum Single-Mode beam from LD/PMF Unit AOS108EX

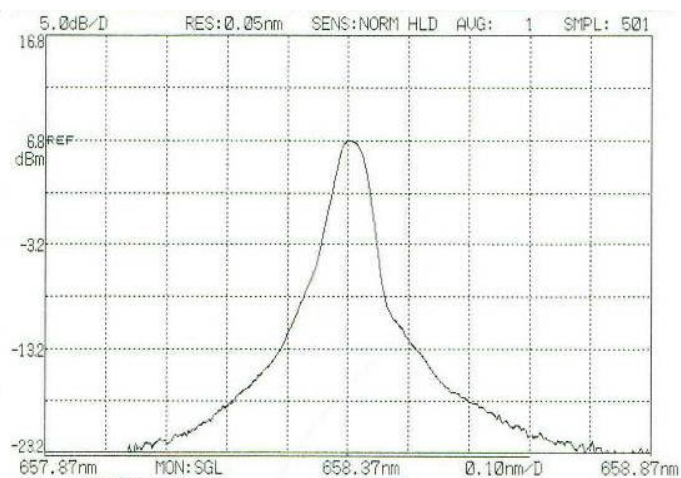
532nm



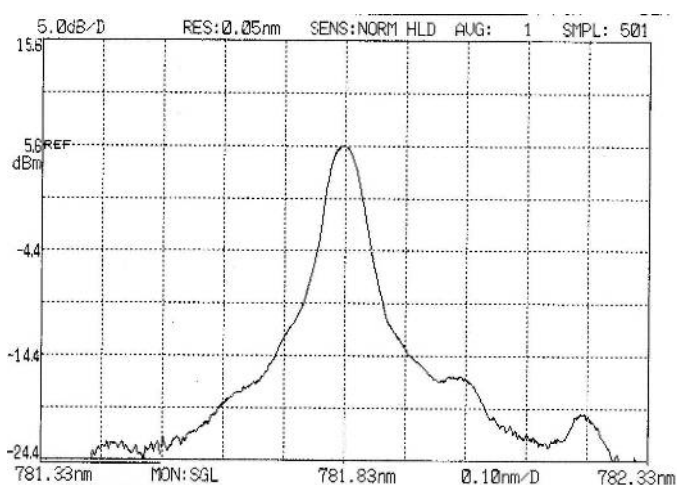
640nm



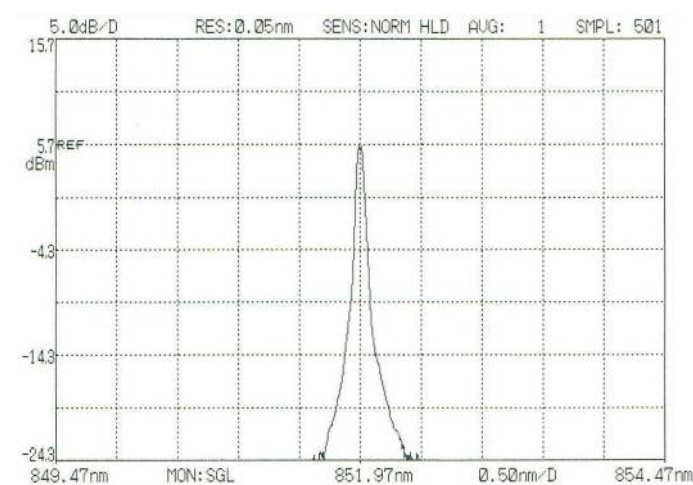
658nm



782nm



850nm



Connector's edge is an angled pherrule.

Other Wavelengths Available!

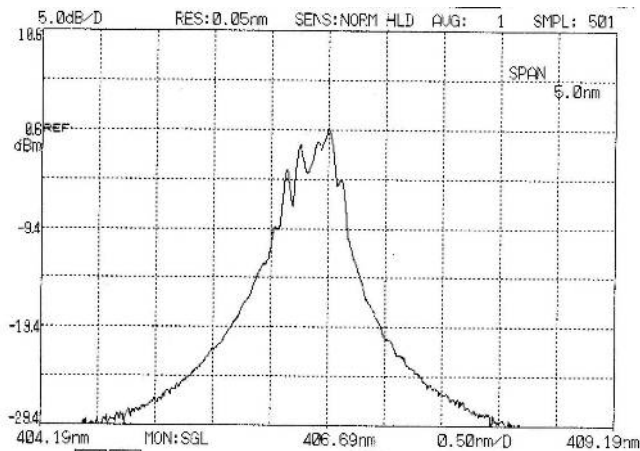
These are assembled without isolators with long years experiences.

ORSA is always challenging original technique with craftsmanship.

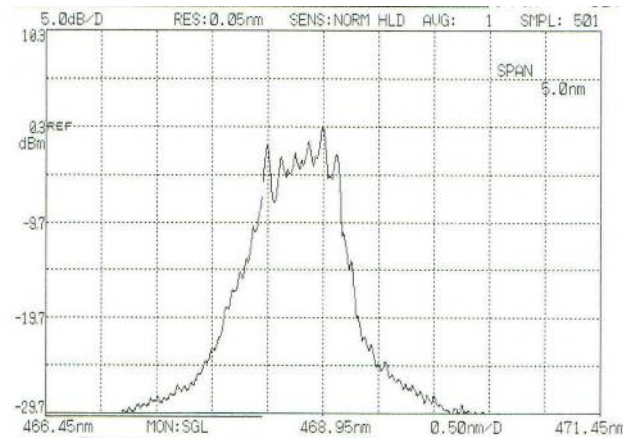
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High Stabilized Power from LD/PMF Unit AOS108

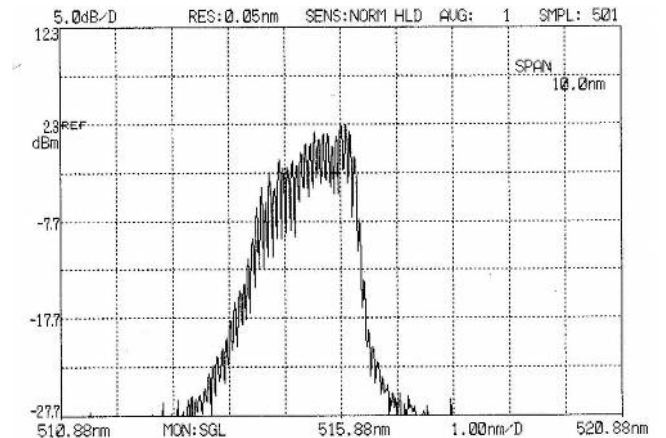
407nm



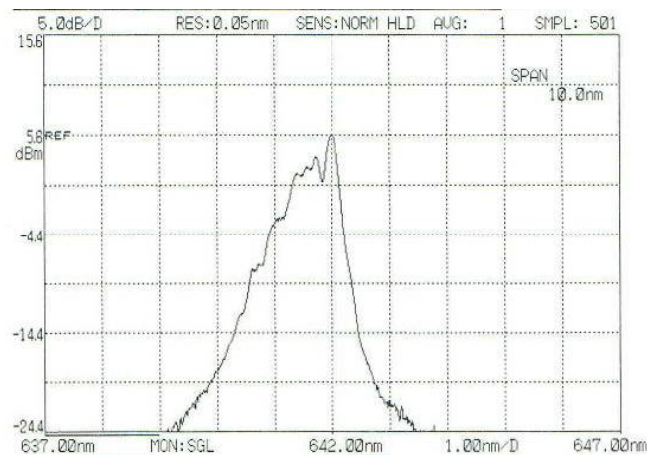
470nm



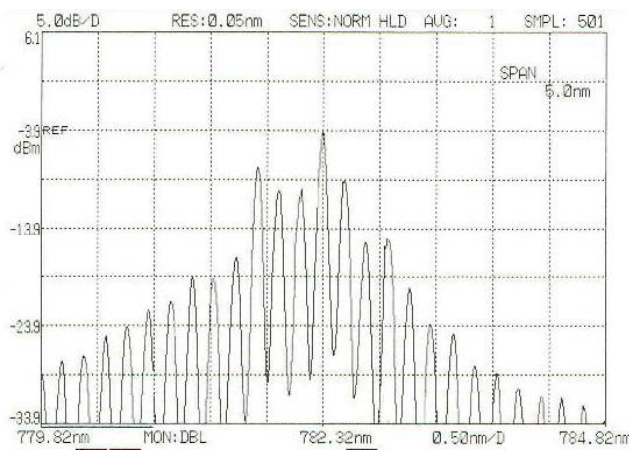
515nm



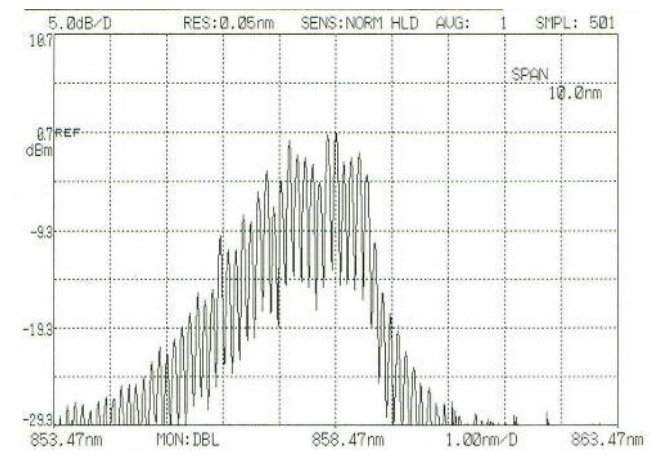
640nm



782nm



850nm



| | |
|------------------|--|
| Fiber | PMF (Polarizing Maintaining Fiber) |
| Efficiency | 40~50% around |
| Extinction ratio | 20dB aro. or more |
| LD | 405nm,445nm,470nm,515nm,530nm,635nm,640nm, 658nm,782nm,830nm,850nm, 1300nm, 1550nm |
| LD Drive | APC (Auto Power Control) |
| Size | W:112 x L:200 x H:33 (mm) |
| Supply Power | 9V AC-Adaptor |

Super Stabilized Power LD/Fiber Unit Temp. Controlled model:AOS308



Model Example:AOS308-850nm-10nm-PMF

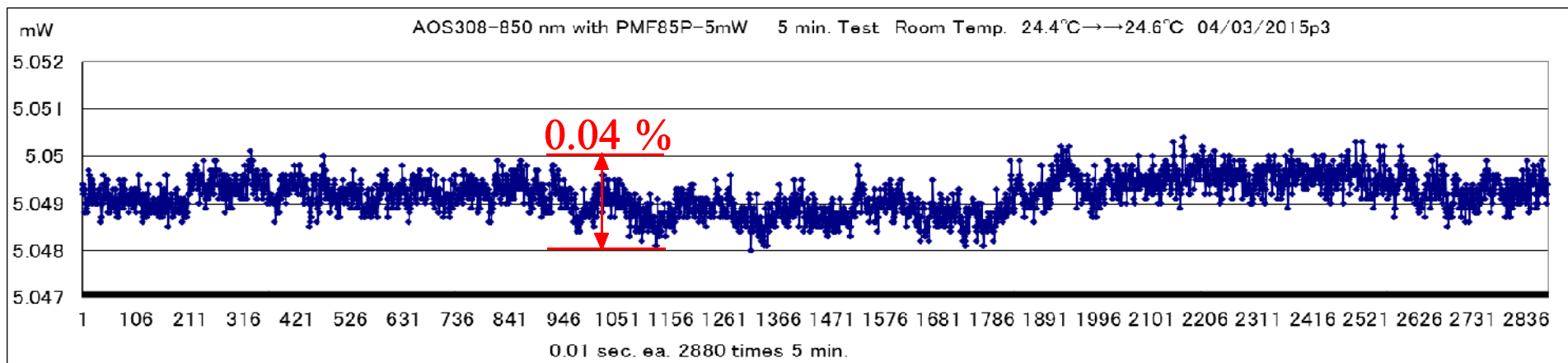
Temperature Controlled by Pertier device

| | |
|----------------|-------------------------------------|
| Standard Fiber | PMF 1.5m (SM&MM are also possible. |
| Supply Power | 12V 4A or 5A AC-Adaptor |
| Size | 230 x230 x 70 (mm) |
| Efficiency | 40%~50% (70% in case of GI) |
| Stability | ± 0.003dBr/5min. or longer |

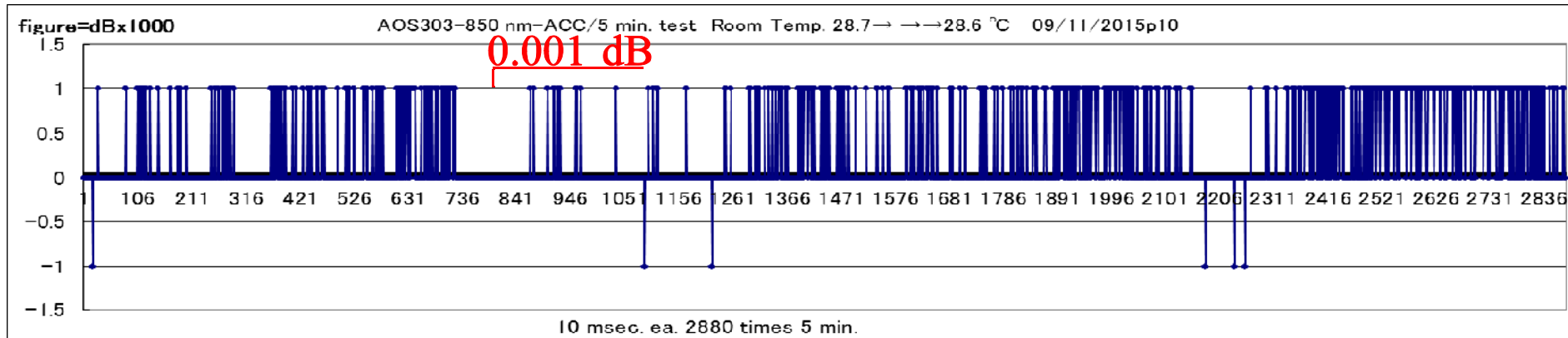
AOS408=Double LD modules in one Unit

Ours are not of Catalog Spec. We always show measured Data.

5mW
5 min.
mW
indicate

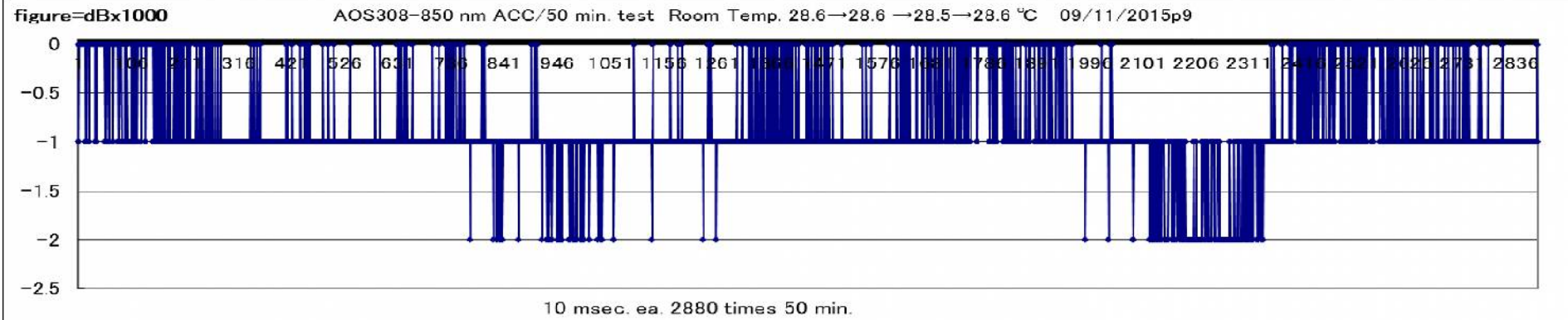


10mW
5 min.
dBr
indicate

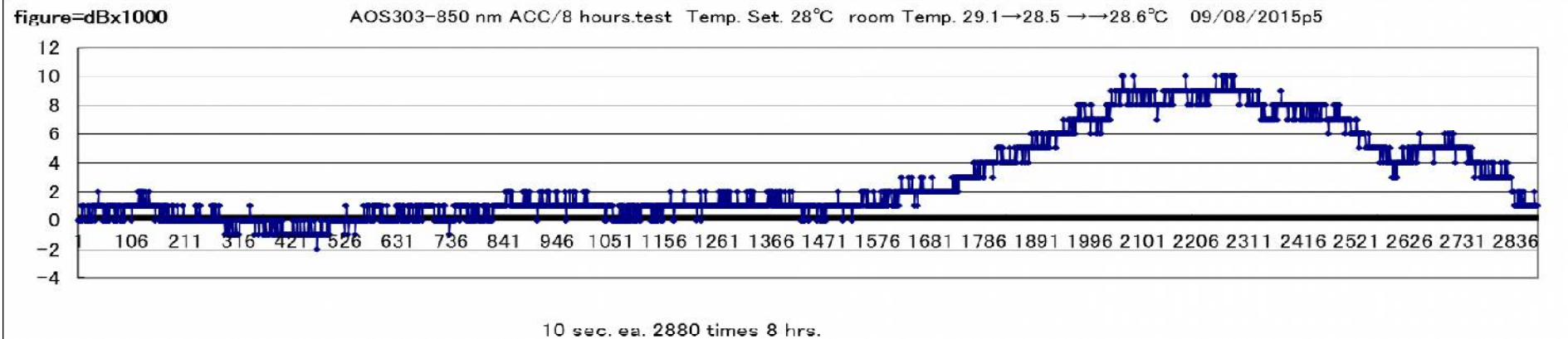


AOS308-850nm-10mW-GI Stability Test additional Data

50 min.

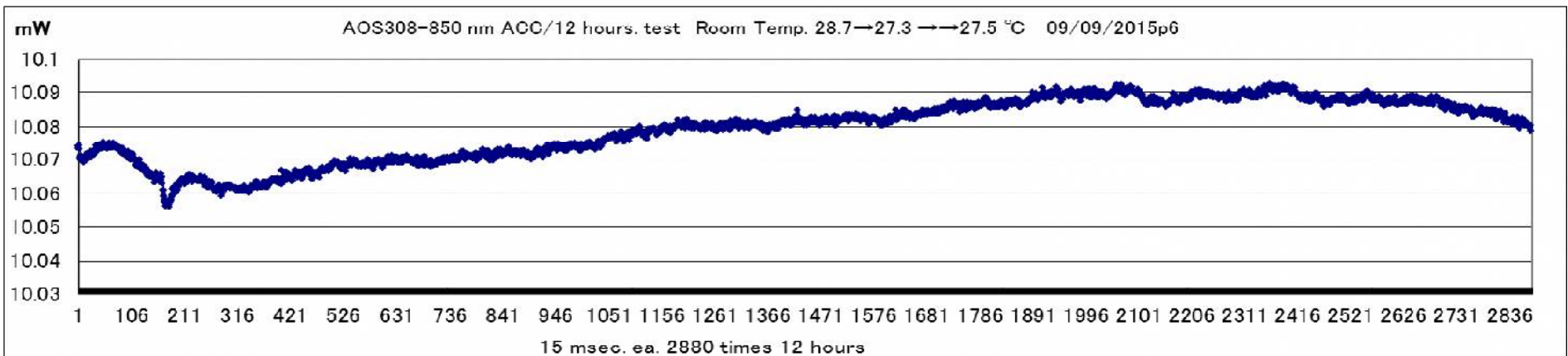


8 hours



12hours

mW
indicate



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600mW Blue from 7 μ m core fiber

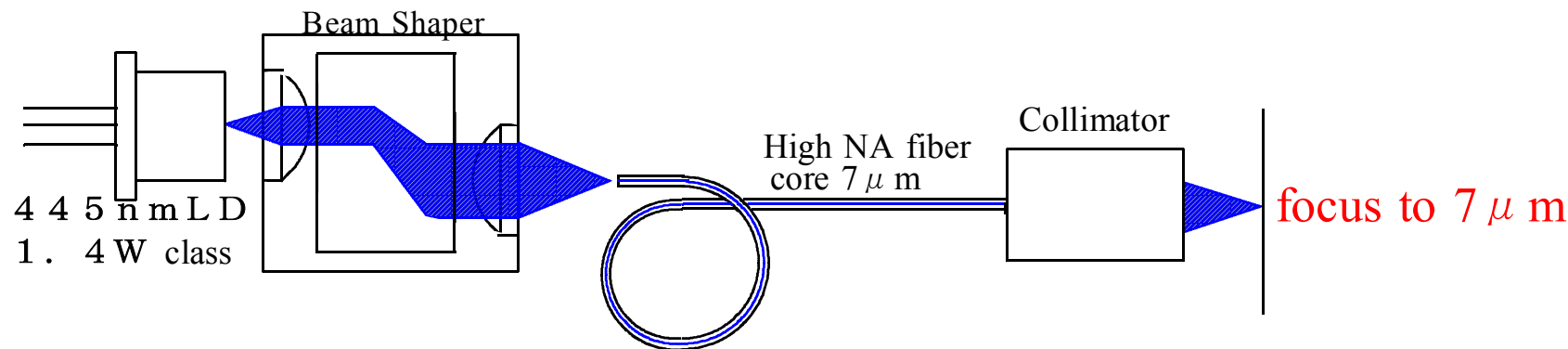
model:HPB500-01



High NA (0.30) Special fiber core 7 μ m has been developed for this purpose.

445nm Blue LD laser 1.4W type is combined with core 7 μ m high NA fiber.

| | |
|------------------|---|
| Input Efficiency | almost 60% |
| Fiber Length | 1m with FC standard or longer as requested! |
| Size | 220 x 320 x 90 (mm) |
| Power supply | 12V-5A AC Adaptor |

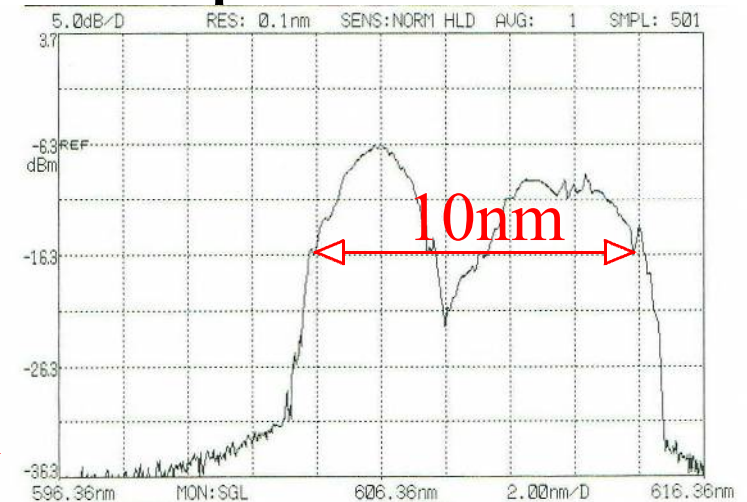
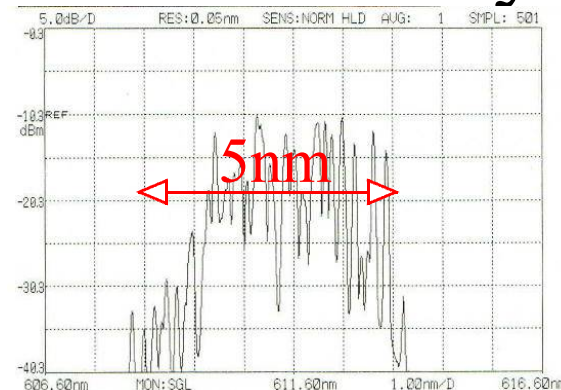
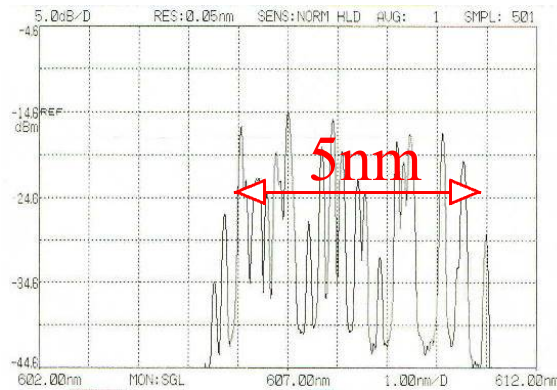


Application: Fine Processing , Stimulation Light source for fiber-lasers, and your special needs. Custom-make is our main work.

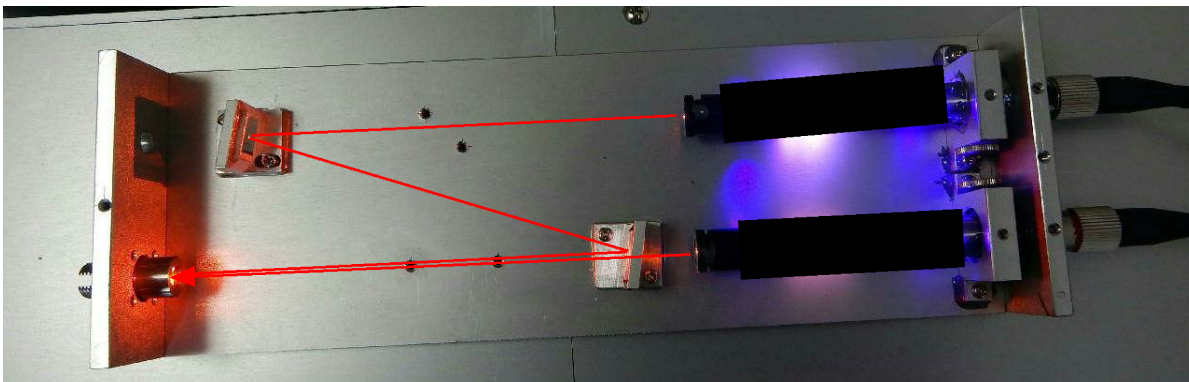
SPECKLES-LOW ORANGE COLOR LASER UNIT

model: SLLD-600-1

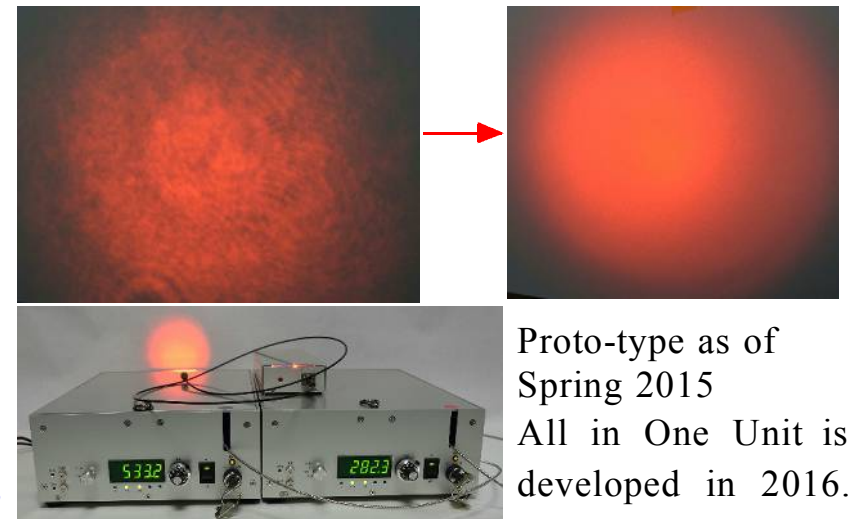
10nm Bandwidth makes Very Low-Speckles.



Each has nearly 5nm BWDT combined to one
605nm and 610nm fiber lasers are combined to one beam for one fiber.



Two fiber lasers are stimulated by High Power Blue-Laser Unit.
Speckle-less Laser has been needed in the measuring industry,
ORSA Here Comes for your needs!



Proto-type as of
Spring 2015
All in One Unit is
developed in 2016.

To observe submicron size particles or microbes, a speckleless or incoherent laser beam is a must.

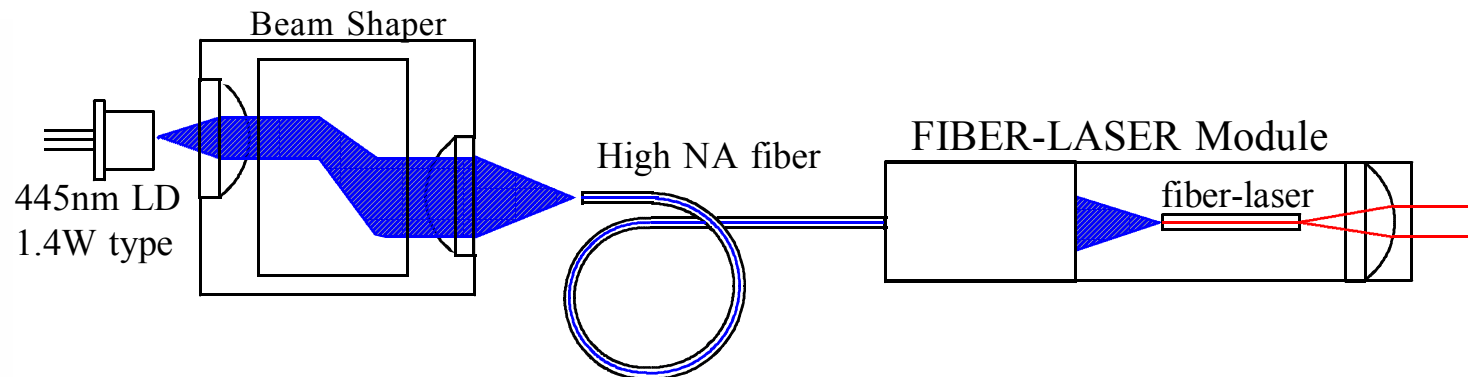
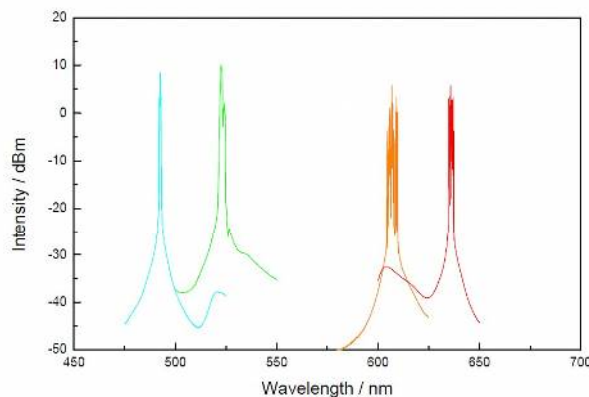
6 alternative Color Laser by exchanging the head of Fiber Laser Module model: MCFL-01

488nm \Leftrightarrow 525nm \Leftrightarrow 605nm \Leftrightarrow 610nm \Leftrightarrow 615nm \Leftrightarrow 635nm



OUTPUT POWER: 20mW~100mW (Please ask us your requirements.)

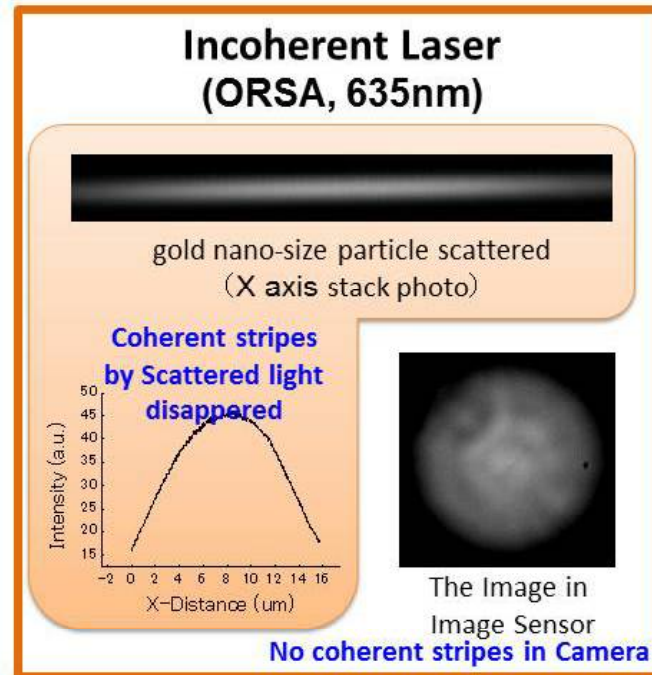
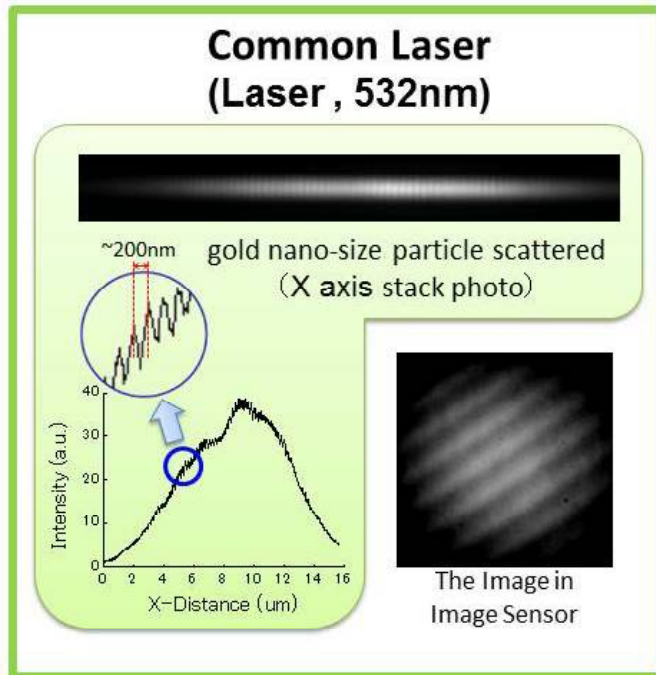
Spectrum



Further information to be supplied upon request, please feel free to ask us by e-mail.

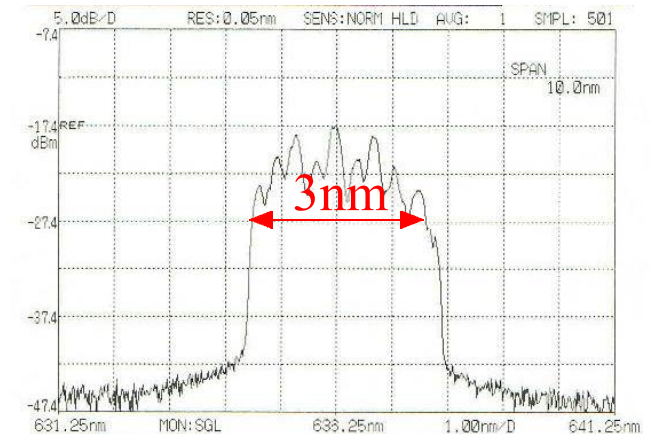
The effect of In-Coherency of 635nm Fiber Laser single use

The Effect of Low-Coherent Laser



Because of the low -coherent beam,
Coherent Stripes are hardly occur.

This is the Image taken by Image Sensor in a Microscope
to observe a nano-size gold particle by using 3nm HBWDT
Fiber Laser. Coherent Stripes disappeared !!
If it were 10nm HBWDT Laser Beam, how clear it would be !!



HBWDT has a reference with the power.

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An endurance test data of AOS108-405nm-10mW-PMF

Maximum Output Power 20mW

This type does not have a Peltier device.

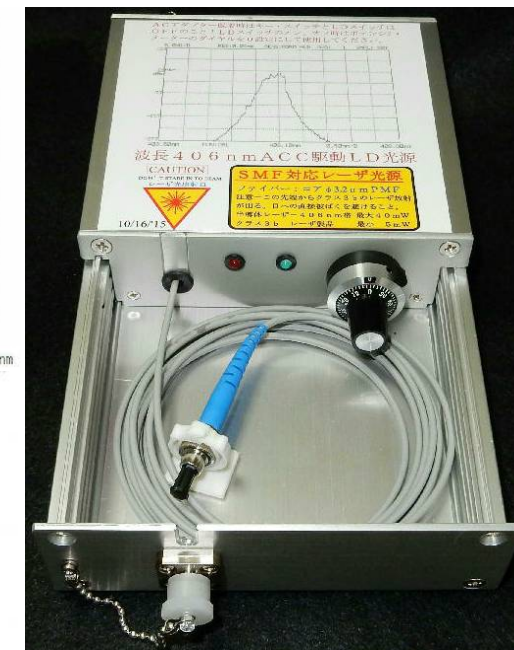
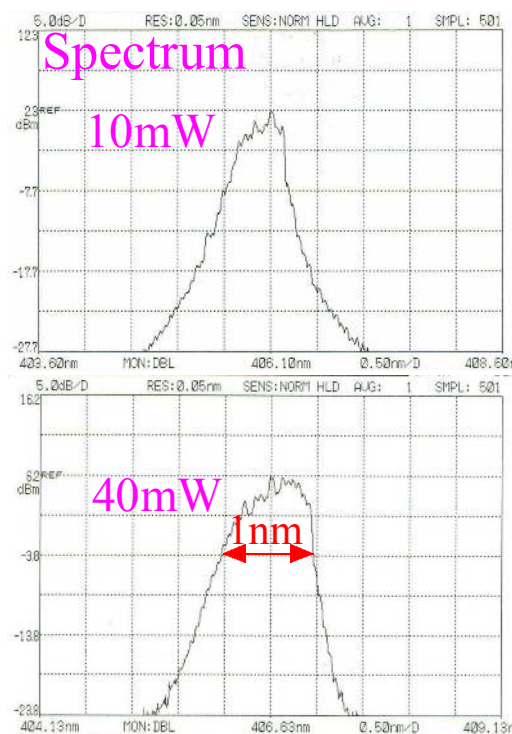
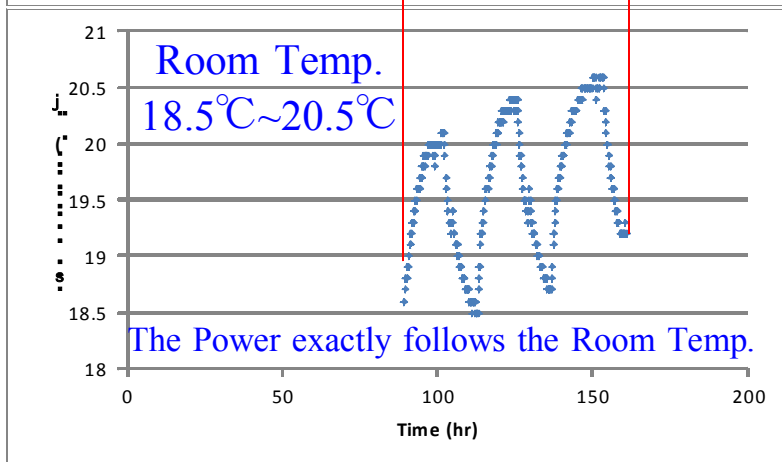
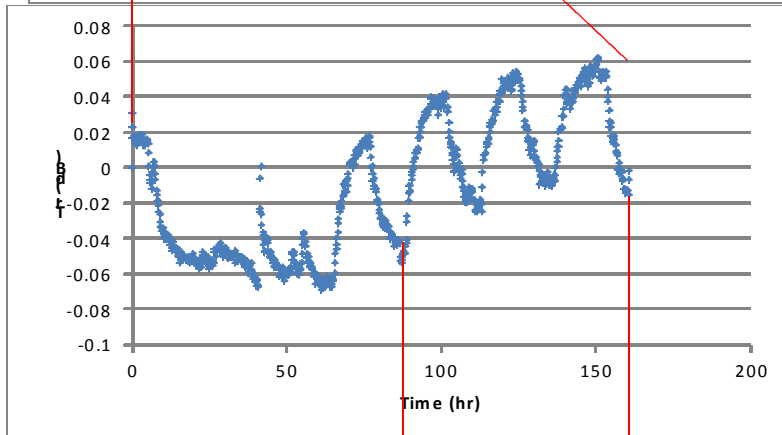
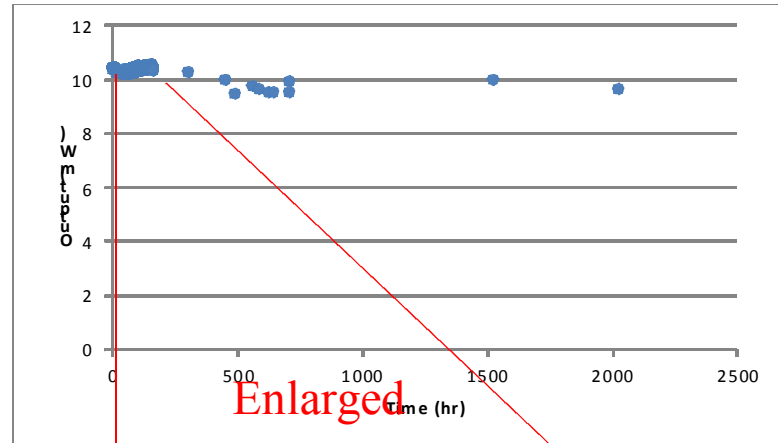
1,000 hour running test passed !

2,000 hour No Problem !

More power like 40mW or 50mW requires temperature controlle. We recommend AOS308 type.

It is common that a special fiber is needed to endure blue-violet laser power. Ours, however, cleared the problem without any special proccessing at the fiber edge.

Assembled fiber on this LD is a usual Polarizing Maintaining Single Mode Fiber you can buy easily. The cost is, therefore, not a factor, as well as other visible LD/Fiber unit like a red.



| |
|------------------|
| Output Power |
| 50mW max. |
| 5mW min. |
| Fiber |
| SMC-40P 1.5m |
| PMF |
| Extinction ratio |
| 22dB |
| LD Drive |
| ACC |
| Supply Power |
| 9V AC adaptor |
| Size |
| 112x33x200mm |

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Double LDs Light Source Unit

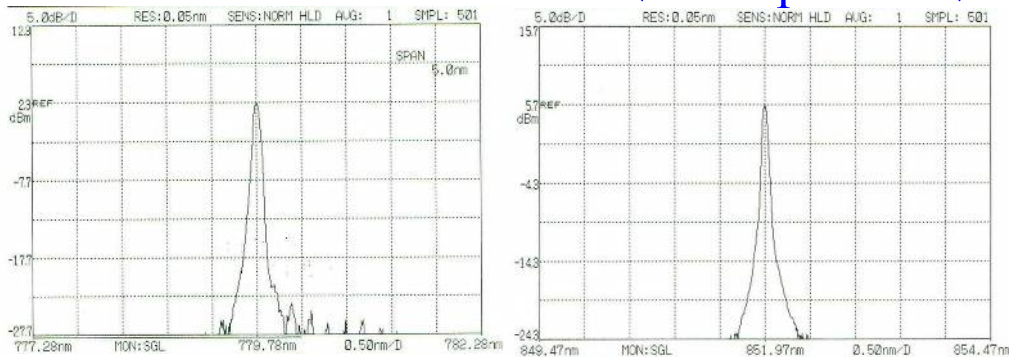
model:AOS408-xx (wavelength) /xx (wavelength)



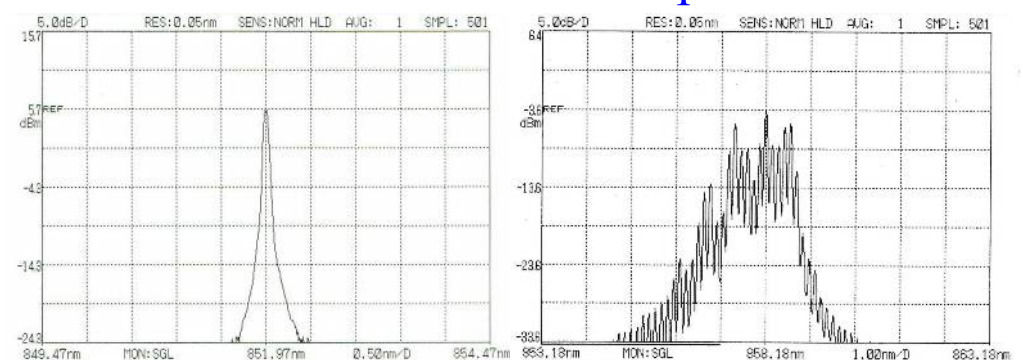
This is a brother Unit of model AOS308.
You can choose two LD/Fiber modules.

Please tell us which wavelength and spectrum type you want to make a pare.
Size:W230xD230xH70 (mm)
Drive:12V-5A AC Adaptor (Attached in the case)

AOS408-780EX/850EX (example I)



AOS408-850EX/850 (example II)



Concerning Wavelength, please refer page 2 and 3. Others, please ask us by mail.

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Optical Research & System Architect