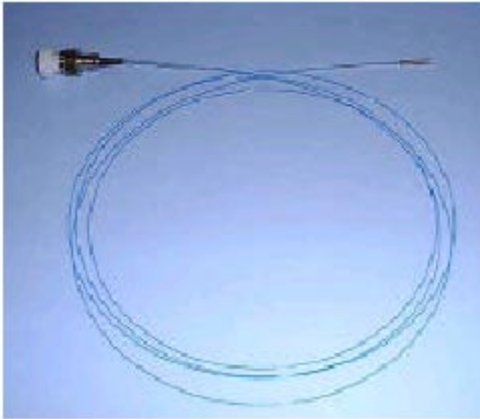


Pump Stabilizer – *DG-101 Series*



Applications

- Pump LD wavelength stabilization

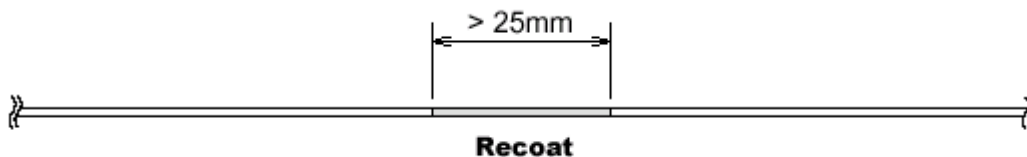
Description

- The Pump Stabilizer is used to stabilize Pump LD wavelength by creating feedback to the LD. The wavelength is then well-defined and sharpened, and noise level is suppressed.

Features

- Provides Wavelength Stability
- Reduces Intensity Noise
- Available in a variety of designs
- Compact Size

Outline Drawings



Recoat diameter : 0.25+/-0.02mm (f0.25mm Fiber)
0.40+/-0.10mm (f0.40mm Fiber)

DG-101 Pump Stabilizer

December, 2000

Environmental Conditions

Parameter	Unit	Min	Typ	Max	Remarks
Storage Temperature	°C	-40		85	
					No dew condensation
Operating Temperature (T_{op})	°C	0		70	

Optical Characteristics

1480nm band pump stabilizer

Item	Symbol	Conditions	Min	Typ	Max	Unit
Center Wavelength	λ_c		1340	-	1520	nm
Center Wavelength accuracy	-	@ Room Temperature	-	-	0.3	nm
Spectrum Width(FWHM)	$\Delta\lambda$		0.5	-	2	nm
Spectrum Width accuracy	-		-	-	0.2	nm
Reflectance	R		1	4	-	%
Reflectance accuracy	-		-	-	1.0	%
Thermal stability	-			0.011		nm/°C
Proof level	-		1.0	-	-	%

980nm band pump stabilizer

Item	Symbol	Conditions	Min	Typ	Max	Unit
Center Wavelength	λ_c		970	-	990	nm
Center Wavelength accuracy	-	@ Room Temperature	-	-	0.3	nm
Spectrum Width(FWHM)	$\Delta\lambda$		0.5	-	2	nm
Spectrum Width accuracy	-		-	-	0.2	nm
Reflectance	R		1	4	-	%
Reflectance accuracy	-		-	-	1.0	%
Thermal stability	-			0.008		nm/°C
Proof level	-		1.0	-	-	%

Typical Performance

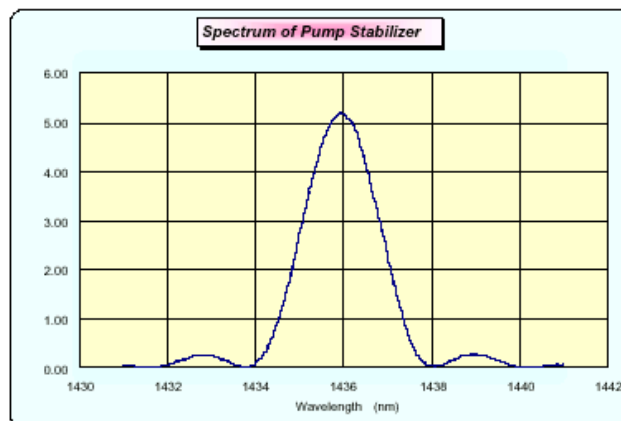
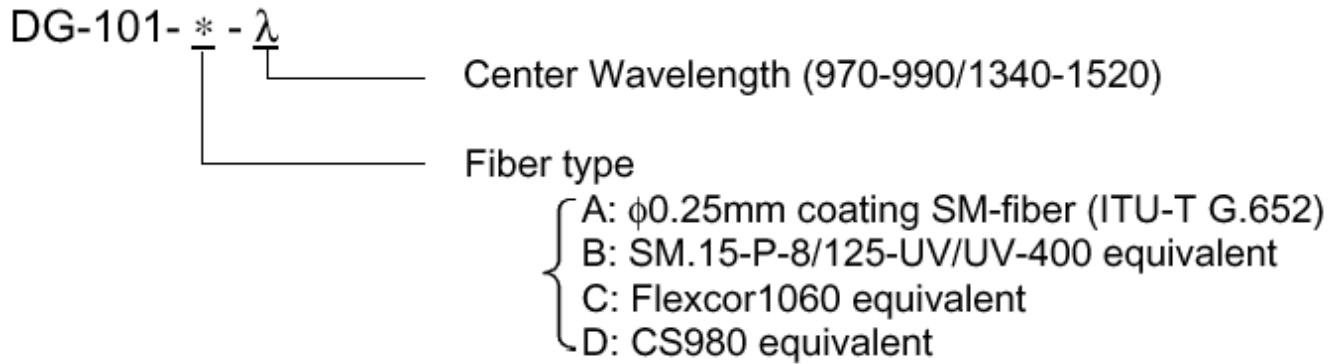


Figure 1. Typical Spectrum

DG-101 Pump Stabilizer

December, 2000

Ordering Information



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