

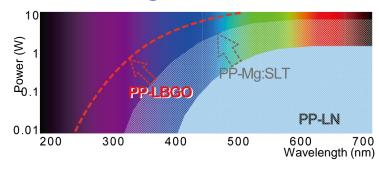
Preliminary

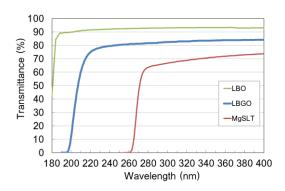
Remarkable Features

- ✓ Non-walk-off (QPM)
- ✓ Non Hygroscopy
- ✓ Shorter Cut-Off Wavelength (<200nm)
 </p>



Available Range





Material Parameters (for 355nm generation)

		LBO Type I	LBO Type II	вво	CLBO	PP-LBGO*	PP-Mg:SLT (3rd order)
Walk-off ρ	(mrad)	18.15	9.37	72.30	37.13	Non	Non
Nonlinear coefficient deff	(pm/V)	0.72	0.53	2.02	0.52	0.61 (d ₃₃ =0.96)	3.00
QPM periodicity∧	(um)					6.4	6.6
Cut-off wavelength	(nm)	160	160	180	180	195	265
Hygroscopy		Weak	Weak	Strong	Very strong	Non	Non

Above parameters are examples for 355 nm generation.



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^{*}I. Shoji et al., Advanced Photonics 2018 (Optical Society of America, 2018), paper NoM3J.5



QPM Device Questionnaire

	REQUESTS				
	Conversion Type	SHG/S	SFG/DFG/OPO/OPA/OPG/others		
		ļ.	Convrerted wavelength		nm
			Power		mW
	Expected or reque	sted output	Conversion efficiency		%
			Transform-limited pulse (Yes/No)		
			CW / Pulsed		
Your setup condition		Common parameter	Wavelength		nm
	Input laser 1		Linewidth		nm
			M2		
			Average Power		W
			Polarization (linear or randum)		
			Focusing condition (if any)		
		Pulsed only	Peak Power		W
			Pulse energy		mJ
			Rep.rate		MHz
			Pulse width		ns
			Pulse shape		
			CW / Pulsed		
		Common parameter	Wavelength		nm
			Linewidth		nm
			M2		
	Input laser 2 (in the case of SFG, DFG, OPA)		Average Power		W
			Polarization (linear or randum)		
			Focusing condition (if any)		
		Pulsed only	Peak Power		W
			Pulse energy		mJ
			Rep.rate		MHz
			Pulse width		ns
			Pulse shape		- 12
	Material	(MgSLT / MgLi			
Your device requests.	Type of QPM gra				
	Dimensio	n		mm	
		Dhaga matahi	(L1) × (W1) × (T1)		
		Phase-matchi		degree (
		Period		um	
	Polishin	7	Input facet (S1) (flat/angle)		
			Output facet (S2) (flat/angle)		
	AR coati	ng	Input facet (S1)		
		-	Output facet (S2)		
		Qu		рс	
		Requested		weeks	
Accessaries		QPM Mou		рс	
		5-Ax		рс	
Other Requests		тетр.	Controller		рс
Vour hu	dget for this request		(Ex. Approximately 1M JPY)		
<u> </u>	ies of future demand		(Ex. 10 pieces/year, 50 pieces/year)		
	quested delivery		(Ex. September in 2014, 4weeks APO)		APO



The above-mentioned Item(s) will not be used for the development, production and/or use of the weapons of mass destruction (WMD) namely nuclear weapon, chemical weapon, biological weapon and WMD delivery systems such as missiles, nor be used in any nuclear explosive activity, nuclear fuel-cycle activity and/or heavy water production which is not covered by IAEA safeguards. The items will be used for civil purpose only.