

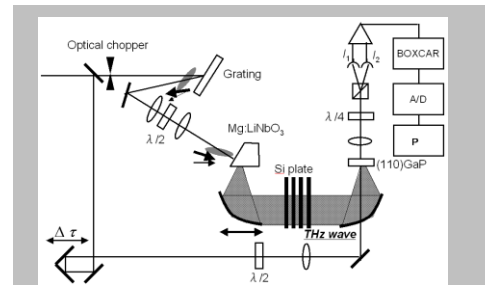
MgSLN Prism for THz Generation

Cherenkov-type Phase Matched THz Wave Generation

MgSLN Prism Advantages

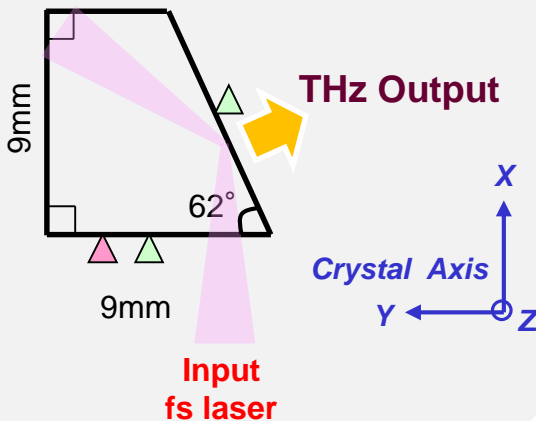
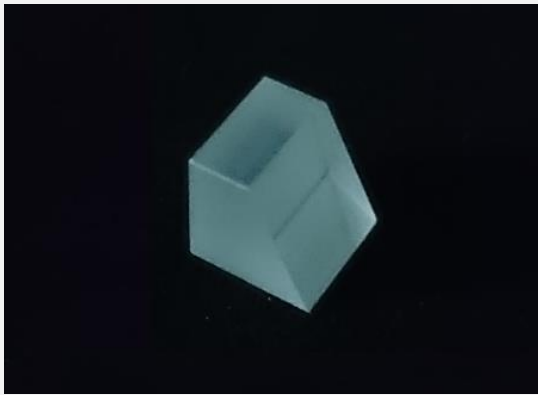
(MgSLN : Mg 1.3mol% doped stoichiometric LiNbO₃)

- ✓ **Easy setup for THz Generation**
- ✓ **Wide THz bandwidth (0.2~2.5 THz)**
- ✓ **Low Defect Density**
- ✓ **High damage threshold**

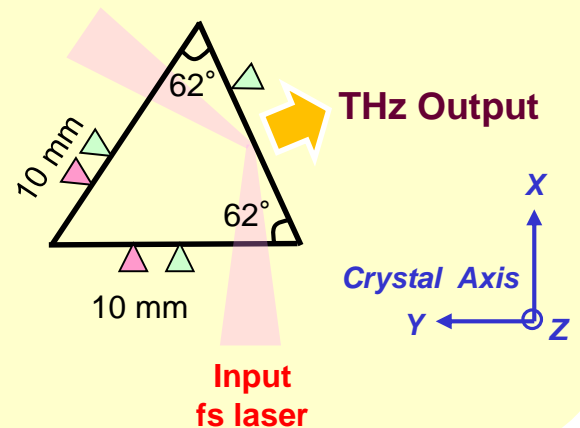
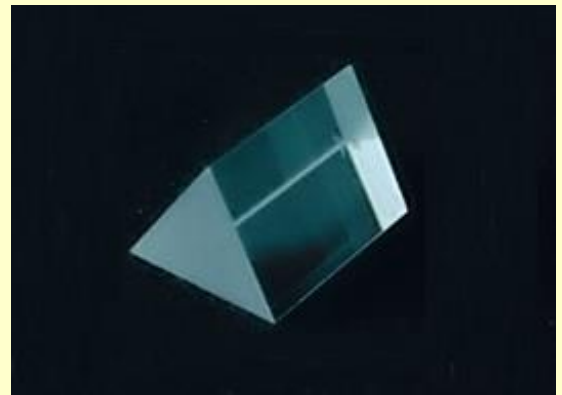


M. Jewariya, M. Nagai, and K. Tanaka,
Journal of Optical Society of America B,
26, (9) A101 (2009).

**Standard Type 1
(BASIC)**
(9 mm X 9 mm X 9 mm)



Standard Type 2 (NEW)
(High power)
(10 mm X 10 mm X 12.5 mm)



△ **Optically polished**

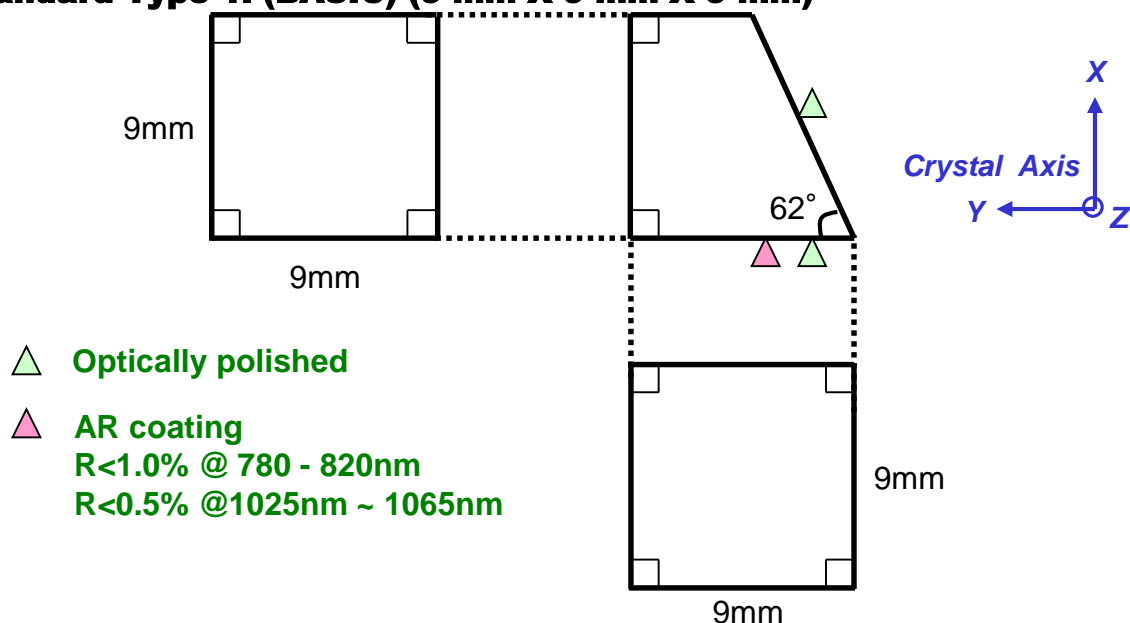
▲ **AR coating**
(for Ti:Sapphire laser and 1um fs fiber laser)
@ 780 - 820nm and @1025nm ~ 1065nm

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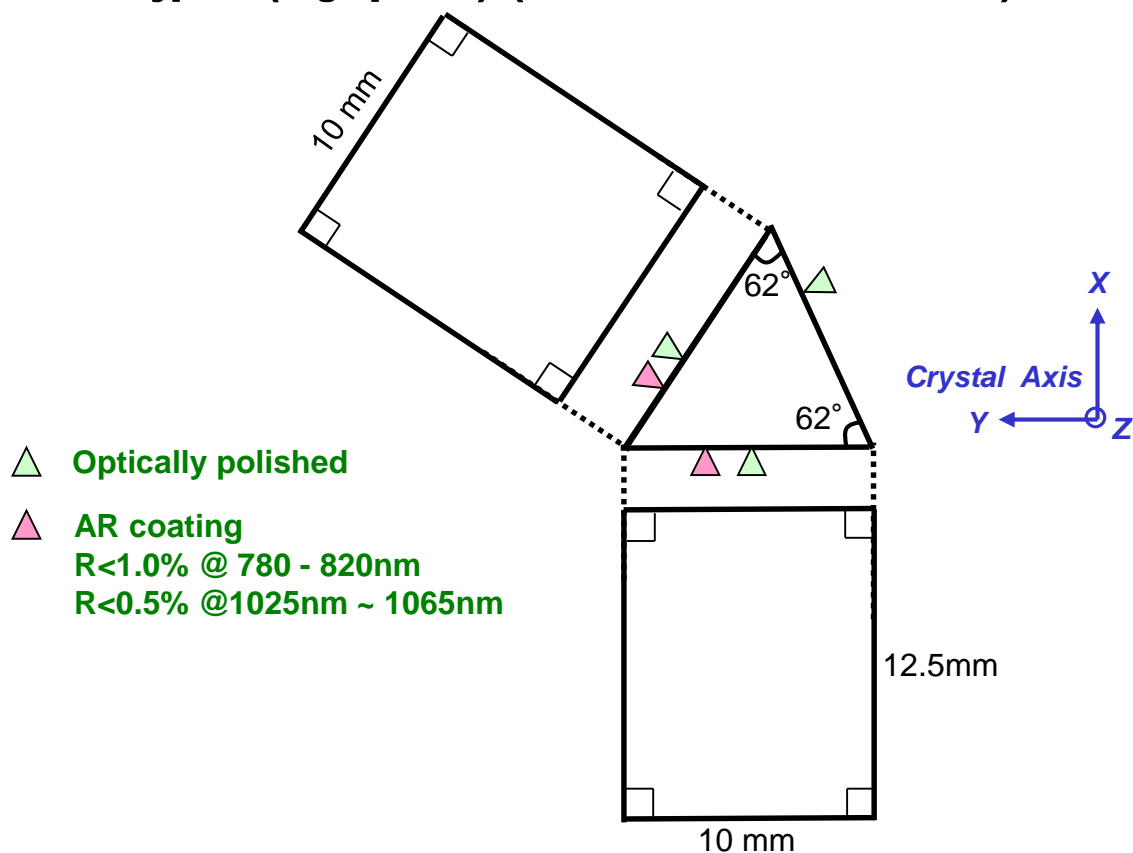
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Detail dimension and specification

Standard Type 1: (BASIC) (9 mm X 9 mm X 9 mm)



Standard Type 2: (High power) (10 mm X 10 mm X 12.5 mm)



Customized solution:

Size: up to 20 mm X 20 mm X 20 mm

AR coating: for arbitrary wavelength

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