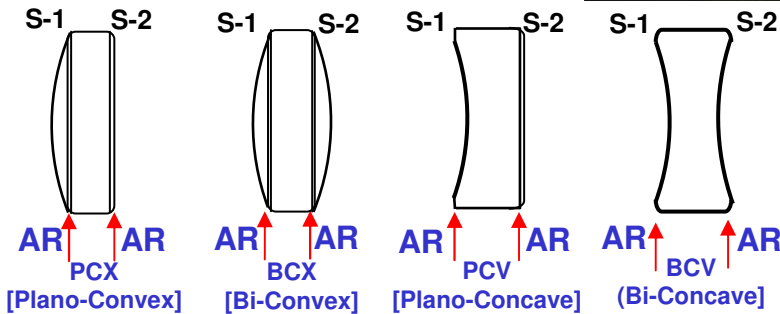
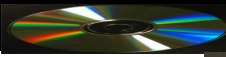


# PRECISION OPTICAL LENSES

**LG - Laser Grade Series**  
**(193 ~ 10,600nm)**

PHOTONIK <sup>hv</sup>



PHOTONIK SPECTRUM WORLD

## General Specifications:

Substrate Material:

Surface Figure:

Transmitted Wave-front:

Surface Quality (after coated):

*Broadband Coating:*

*Narrowband Coating:*

Diameter/Thickness Tolerance:

Chamfer/Concentricity:

Effective Focal Length (EFL)/Tolerance:

Coating Technology:

Durability Performance:

BK7, UV grade fused silica, Silicon, GaAs, CaF<sub>2</sub>, ZnSe Sapphire .... Selections per wavelength and applications.  
λ /10 typical at 633nm over 1" area  
λ /10 typical at 633nm

40-20 scratch and dig laser quality (MIL SPECS 0-13830B)

10 - 5 scratch and dig laser quality (MIL SPECS 0-13830B)

+ 0.00mm, - 0.25mm / ± 0.25mm

0.35mm at 45° typ. / ≤ 0.05mm

Per customer drawings or user specified / ± 1% typ.

Electron/ion beam multi-layer dielectric standard

Adhesion, moderate abrasion, severe abrasion, humidity as

per the following (where applicable): MIL-C-675,

MIL-M-13508, MIL-M-14806, MIL-C-48497, MIL-F-48616,

MIL-STD-810F

> 90% of dimension, central area

0 ~ 30° AOI standard; Others per specified for special order.

20-J/cm<sup>2</sup>, 8nsec pulse; 1-MW/cm<sup>2</sup>, CW @ 1064nm typ.

R < 0.25% @ specified single center wavelength;

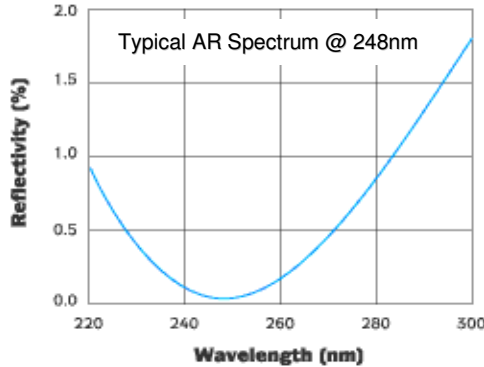
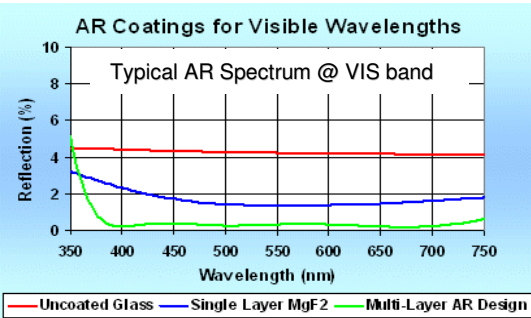
R < 0.5% Average @ broadband ranges (-UV, -A, -B & -C)

Clear Aperture:

Angle of Incidence(AOI):

Damage Threshold:

Anti-reflection(AR) Coating:



Call us for Lens Set Information



## Ordering Information:

**POL** — ① — ② — ③ — ④ — ⑤

① — Substrate Material: 1 = BK7; 2 = UV fused silica; 3 = Silicon; 4 = GaAs. 5 = GaF<sub>2</sub>; 6 = ZnSe; 7 = Sapphire ...

② — Lens Type: PCX = Plano-Convex; BCX = Bi-Convex; PCV = Plano-Concave; BCV = Bi-Concave.

③ — Outer Dimension/Edge Thickness: e.g. **15/2**: φ15xET2mm; **12.7/6**: φ0.5"xET6mm; **25.4/10**: φ1"xET10; or user specified;

④ — Single-Point Wavelength AR Coating: e.g. **S/355**: single wavelength at 355nm; **S/633**: single wavelength at 633nm; ...  
193, 213, 244-248, 266, 308, 337, 351, 355, 400-410, 488-515, 532, 632, 650-690, 755, 780-785, 800-810, 830, 850, 870, 915,  
940, 976-980, 1032, 1047, 1053, 1064, 1235, 1310, 1319, 1480, 1550, 1610, ..., 10600.

Broadband AR Coating: **B/UV**: Broadband UV AR Coating 290 ~ 370nm; **B/A**: Broadband AR Coating 350 ~ 650nm; **B/B**:

Broadband AR Coating 650 ~ 1050nm; **B/C**: Broadband AR Coating 1050 ~ 1620nm;

⑤ — Effective Focal Length (EFL): e.g. **200N**: EFL= -200mm; **1000P**: EFL= +1000mm; Thousands of EFL available per specified;

## Contact Information:

**PHOTONIK (SINGAPORE) PTE LTD**

German Center, #04-102

25 International Business Park, Singapore 609916

Republic of Singapore

Tel: (65) 6562-7838, 6562-7976 Fax: (65) 6562-7839, 6274-7106

sales@photonik.com.sg www.photonik.com.sg

## Local Representative:

