

NOTES:

- 1) **DIMENSIONS: -A- & -B- $\pm$ 0.125mm SEE TABLE 1**
- 2) **MATERIAL: N-BK7, GRADE A, PRECISION ANNEALED**
- 3) **ANGULAR TOLERANCE: SEE TABLE 2**
- 4) **CLEAR APERTURE: 85% CIRCULAR**
- 5) **SURFACE FLATNESS: LAMBDA / 8 @ 632.8nm**
- 6) **SURFACE QUALITY: 60-40 PER MIL-PRF-13830**
- 7) **SURFACES MARKED "P" POLISHED**
SURFACE MARKED "G" GROUND (180 GRIT OR FINER)
- 8) **PROTECTIVE CHAMFERS: AS REQ'D (0.50mm TYP @ 45°)**
- 9) **COATING:**
(S1) SEE TABLE 3
V-COAT R < 0.25% TYP
BBAR Rave < 0.75% TYP
(S2) SEE TABLE 4 (PAINT IS BLACK EPOXY)
- 10) **CUSTOM SIZES, TOLERANCES, MATERIALS, PYRAMID ERROR, AND COATINGS AVAILABLE UPON REQUEST**

ORDERING EXAMPLES:

16130-10-633-UNC (15.0mm RAP w-10" angles, AR @ 633nm on S1, uncoated S2)
16160C-5-1064-Ag/Cu/PAINT (25.4mm RAP w-custom dim B, 5" angles, AR @ 1064nm, Ag/Cu/PAINT on S2)
16199-C-VIS-AI/SiO (custom dimensioned RAP, w-custom angle tolerance, VIS BBAR on S1, AI/SiO on S2)

TABLE 1

PART No.	DIM -A- (mm)	DIM -B- (mm)
16100	6.4	6.4 (or C)
16110	9.0	9.0 (or C)
16120	12.7	12.7 (or C)
16130	15.0	15.0 (or C)
16140	20.0	20.0 (or C)
16150	22.0	22.0 (or C)
16160	25.4	25.4 (or C)
16170	31.8	31.8 (or C)
16180	38.1	38.1 (or C)
16190	50.8	50.8 (or C)
16199	CUSTOM (C)	CUSTOM (C)

TABLE 2

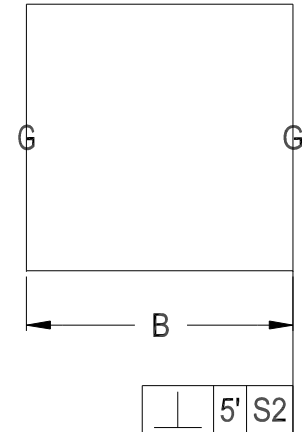
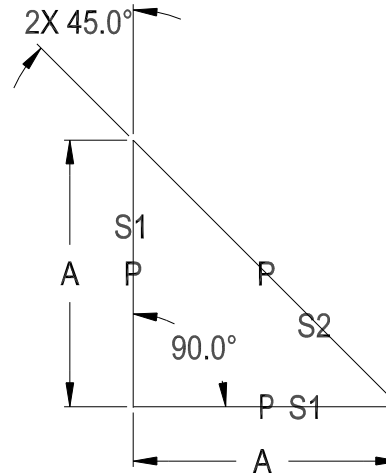
ANG. TOL. (arc sec)
5
15
30
60
180
300
CUSTOM (C)

TABLE 3

AR COATING (S1)
550nm
633nm
750nm
900nm
1064nm
1550nm
VIS (425-675nm)
NIR (700-900nm)
CUSTOM (C)
UNCOATED (UC)

TABLE 4

REF. COATING (S2)
Al/SiO
Al/SiO/PAINT
Ag/Cu
Ag/Cu/PAINT
Au/INCONEL
CUSTOM (C)
UNCOATED (UC)

**PRECISION OPTICAL**

320 KALMUS DRIVE, COSTA MESA, CA. 92626 (949) 631-6800

TITLE			
RIGHT ANGLE PRISM			
SIZE	CODE IDENT NO.	DWG NO.	REV.
A		16100 SERIES	-
SCALE		RELEASE DATE	SHEET
			1 OF 1

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION THAT IS NOT TO BE
DISSEMINATED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF PRECISION OPTICAL

MATERIAL**N-BK7****USED ON****SOLID GLASS RIGHT ANGLE PRISMS**

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES:

2 PLACE DECIMALS: $\pm$.010
3 PLACE DECIMALS: $\pm$.005
ANGLES: $\pm$ 0° 3'

DRAWN	N. LAMBERT	DATE	12/18/17
CHECK			
DESIGN ACTIVITY	16100		
CUSTOMER	CATALOG		