

NOTES:

- 1) **DIMENSIONS: -A- & -B- $\pm$ 0.2mm SEE TABLE 1**
- 2) **MATERIAL: N-BK7, GRADE A, PRECISION ANNEALED**
- 3) **BEAM DEVIATION: 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" FINE GROUND
- 8) **PROTECTIVE CHAMFERS: AS REQ'D (0.50mm @ 45° TYP)**
- 9) **COATING:**
(S1) SEE TABLE 3
(S2) SEE TABLE 4 (PAINT IS BLACK EPOXY)
- 10) **CUSTOM SIZES, TOLERANCES, MATERIALS, FEATURES, PYRAMID ERROR, ACCURACIES AND COATINGS AVAILABLE UPON REQUEST**

ORDERING EXAMPLES:

12140-5-VIS-Ag/Cu/PAINT (25.4mm, 5" DEV, AR @ VIS on S1, Ag/Cu/PAINT on S2)
12190-C-UC-Enh/Ag (CUSTOM DIMENSION, CUSTOM DEV, NO AR on S1, Enhanced Ag on S2)

TABLE 1

PART No.	DIM -A- (mm)	DIM -B- (mm)
12110	12.7	12.7
12140	25.4	25.4
12160	38.1	38.1
12170	50.8	50.8
12190	CUSTOM (C)	CUSTOM (C)

TABLE 2

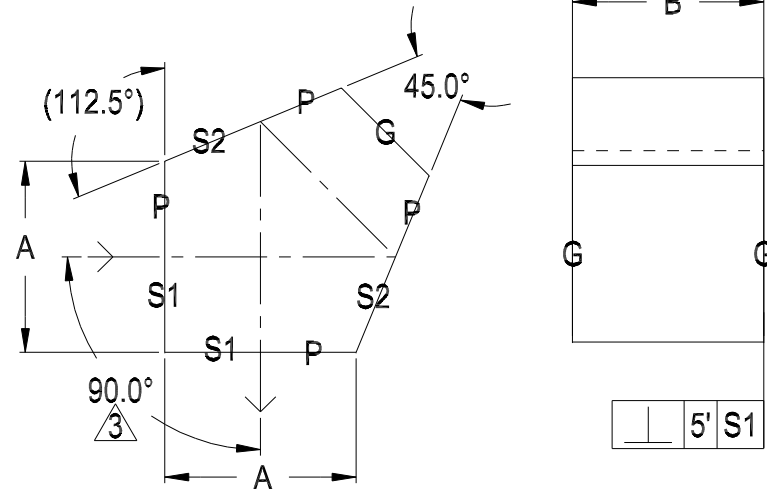
DEV. ($\pm$ arc sec)
1
2
3
5
10
30
CUSTOM (C)

TABLE 3

AR COATING (S1)
546nm
633nm
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
Enh/Ag
CUSTOM (C)
UNCOATED (UC)



DRAFT 3

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 PENTA PRISMS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:

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

DRAWN **N. LAMBERT** DATE **11/08/20**
CHECK
DESIGN ACTIVITY
12100
CUSTOMER
CATALOG

PRECISION OPTICAL

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

TITLE
PENTA PRISM
SIZE **A** CODE IDENT NO. DWG NO. **12100 SERIES** REV. **-**
SCALE RELEASE DATE SHEET **1 OF 1**

12100 SERIES