

NOTES:

- 1) **DIMENSIONS: -A- & -B- $\pm 0.125\text{mm}$ SEE TABLE 1**
- 2) **MATERIAL: N-BK7, GRADE A, PRECISION ANNEALED**
- 3) **90° ANGULAR TOLERANCE: SEE TABLE 2**
- 4) **CLEAR APERTURE: 85% CIRCULAR**
- 5) **SURFACE FLATNESS: $\lambda / 8 @ 632.8\text{nm}$**
- 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, ROOF EDGE, AND COATINGS AVAILABLE UPON REQUEST. IF ROOF EDGE IS REQUIRED SHARP, TYPICAL CHIP SPEC CAN BE: CHIPS $< 0.1\text{mm}$, NO MORE THAN 5 CHIPS IN C.A., IGNORE CHIPS $< 0.012\text{mm}$ (THIS COULD VARY WITH PRISM SIZE)**

ORDERING EXAMPLES:

16330-5-633-UNC (15.0mm PORRO w-5" 90°, AR @ 633nm on S1, uncoated S2)

16360C-30-1064-Ag/Cu/PAINT (25.4mm PORRO w-custom dim B, w-30" 90°, AR @ 1064nm, Ag/Cu/PAINT on S2)

16399-C-VIS-Al/SiO (custom dimensioned PORRO, w-custom 90° angle tolerance, VIS BBAR on S1, Al/SiO on S2)

TABLE 1

PART No.	DIM -A- (mm)	DIM -B- (mm)
16300	6.4	6.4 (or C)
16310	9.0	9.0 (or C)
16320	12.7	12.7 (or C)
16330	15.0	15.0 (or C)
16340	20.0	20.0 (or C)
16350	22.0	22.0 (or C)
16360	25.4	25.4 (or C)
16370	31.8	31.8 (or C)
16380	38.1	38.1 (or C)
16390	50.8	50.8 (or C)
16399	CUSTOM (C)	CUSTOM (C)

TABLE 2

90° ANG. TOL. (arc sec)
1
3
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)

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
12/18/17

CHECK

DESIGN ACTIVITY

16300

CUSTOMER

CATALOG

PRECISION OPTICAL

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

TITLE
PORRO PRISM

SIZE

A

SCALE

CODE IDENT NO.

DWG NO.

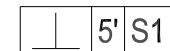
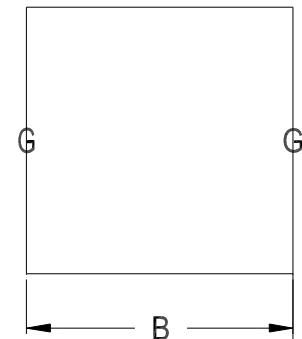
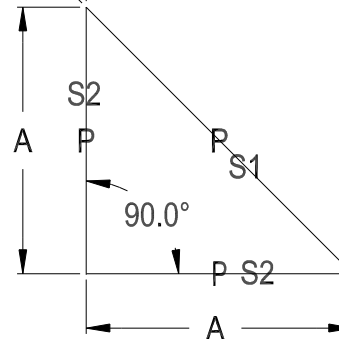
16300 SERIES

REV.

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RELEASE DATE

SHEET 1 OF 1

2X 45° 0.0' $\pm 1.0'$ THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION THAT IS NOT TO BE
DISSEMINATED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF PRECISION OPTICAL

MATERIAL

N-BK7USED ON
SOLID GLASS PORRO PRISMS