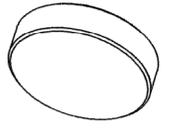


REVISION HISTORY

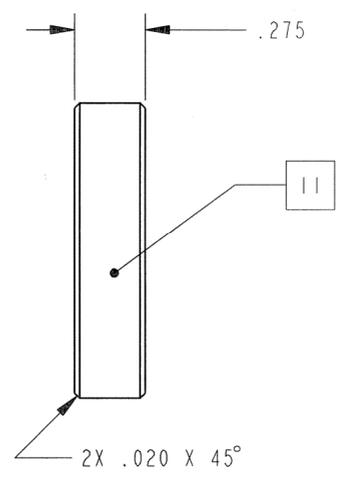
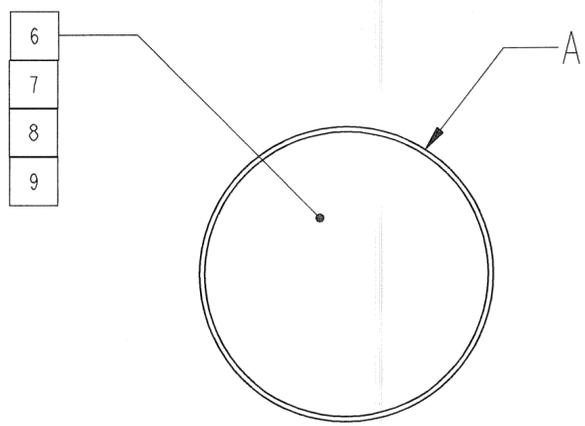
ZONE	REV	DESCRIPTION	DRAWN	CHECKED	LEAD ENGR	BRANCH	DATE
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NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
MIL-STD-100, DOD STANDARD PRACTICE FOR ENGINEERING DRAWINGS,  
ASME Y14.100M, ENGINEERING DRAWING PRACTICES,  
MIL-T-31000, TECHNICAL DATA PACKAGES.
2. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS  
.010 MAX CHAMFER OR RADIUS.
3. NON-OPTICAL SURFACE ROUGHNESS SHALL BE 125  $\mu$ in RMS OR BETTER  
UNLESS SPECIFIED OTHERWISE
4. DIMENSIONS APPLY AFTER SURFACE TREATMENT(S)
5. CLEAR APERTURE SHALL BE 0.040 FROM EDGE
6. INDICATED SURFACE SHALL BE FLAT WITHIN 8 FRINGES POWER  
AND 2 FRINGES IRREGULARITY AT 633 nm WHEN TESTED IN A  
SINGLE PASS CONFIGURATION WITHIN THE CLEAR APERTURE
7. INDICATED SURFACE(S) ARE TO BE OPTICALLY POLISHED BEFORE  
GOLD COATING
8. SURFACE ROUGHNESS SHALL BE DETERMINED BY MEASUREMENTS AT 3  
LOCATIONS THAT ARE SPACED EQUALLY ACROSS THE CLEAR APERTURE  
ALONG A PLANE THAT RUNS THROUGH THE OPTICAL AXIS. THE AVERAGE  
OF THE MEASUREMENTS SHALL NOT EXCEED 40 ANGSTROMS RMS,  
WITH NO ONE MEASUREMENT EXCEEDING 120 ANGSTROMS RMS.  
SCRATCH AND DIG [40 & 20] IN ACCORDANCE WITH MIL-F-48616 IS PERMITTED
9. COAT OPTICAL SURFACES IN ACCORDANCE WITH MIL-F-48616 AS FOLLOWS:
  - A. COAT CLEAR APERTURE WITH REFLECTIVE COATING AND PROTECTIVE  
OVERCOAT AS FOLLOWS:
    1. WAVELENGTH BAND: 5 TO 50 MICRONS
    2. THE AVERAGE REFLECTANCE SHALL BE GREATER THAN 98% OVER  
THE WAVELENGTH BAND AT ANGLES OF INCIDENCE BETWEEN 12°  
AND 18°. THE MINIMUM REFLECTANCE WITHIN THE WAVELENGTH  
BAND AND RANGE OF ANGLES OF INCIDENCE SHALL BE GREATER  
THAN 96%
  - B. THE COATING SHALL BE SUBJECT TO THE HUMIDITY, MODERATE ABRASION,  
AND ADHESION TESTS OF MIL-F-48616, EXCEPT SEQUENCE OF TEST SHALL BE  
HUMIDITY, MODERATE ABRASION, AND ADHESION
  - C. REFLECTANCE TESTS SHALL BE PERFORMED AT 15° ANGLE OF INCIDENCE
  - D. FOR THE PURPOSE OF JUDGING COATINGS IN ACCORDANCE WITH MIL-F-48616,  
THE CLEAR APERTURE OF A WITNESS SAMPLE SHALL BE DEFINED AS A  
CENTRAL REGION OF THE COATED SURFACE HAVING DIMENSIONS 80% OF  
THE OUTSIDE DIMENSIONS OF THE SAMPLE SURFACE
  - E. REFLECTANCE TRACES AND ONE WITNESS SAMPLE SHALL ACCOMPANY  
HARDWARE FOR EACH COATING RUN
10. PACKAGE IN ACCORDANCE WITH MIL-F-48616. INTERMEDIATE PACKAGES AND  
SHIPPING CONTAINERS SHALL BE MARKED WITH "CAUTION: PRECISION OPTICAL  
PART. DO NOT OPEN INDIVIDUAL UNIT CONTAINERS IN RECEIVING." ATTACH ALL  
PACKING SLIPS, INVOICES, ETC., ON OUTSIDE OF PACKAGING
11. IDENTIFY IN ACCORDANCE WITH MIL-STD-130, METHOD AND TYPE OPTIONAL.  
LOCATE APPROXIMATELY WHERE SHOWN, RADIAL POSITION OPTIONAL.  
INCLUDE PART NUMBER, DASH NUMBER, AND SERIAL NUMBER BEGINNING  
WITH SERIAL NUMBER 001



SCALE 1/1



PART NO.	DIM "A"
-1	1.000 ±.005
-3	1.150 ±.005
-5	1.500 ±.005

QTY REQ	CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
		-5	MIRROR, FOLD FLAT	CORNING ULE MAT'L CODE 7971 OR EQUIVALENT	3
		-3	MIRROR, FOLD FLAT	CORNING ULE MAT'L CODE 7971 OR EQUIVALENT	2
		-1	MIRROR, FOLD FLAT	CORNING ULE MAT'L CODE 7971 OR EQUIVALENT	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES DECIMALS .XX ± .03 ANGULAR .X ± .5° .XXX ± .010 DO NOT SCALE DRAWING.		CONTRACT NO.		NATIONAL AERONAUTICS & SPACE ADMINISTRATION LANGLEY RESEARCH CENTER HAMPTON, VIRGINIA 23681-2199	
DRAWN C. M. BOWER		APPROVAL		DATE	
CHECKED LA3109A		DESIGNER C. M. BOWER		2010/11/8	
FINISH 9		LEAD ENGR L. J. CARROLL		2010/11/9	
PART DASH NO.		SIMILAR TO		SPECIAL MARKING SYM	
NEXT FINAL		NEXT ASSY		USED ON	
QTY REQ PER ASSY		APPLICATION		SCALE 2/1	
		11		DWG NO. 1251776	
				REV. -	
				SHEET 1 OF 1	

CAGE CODE 25305 DWG NO 1251776