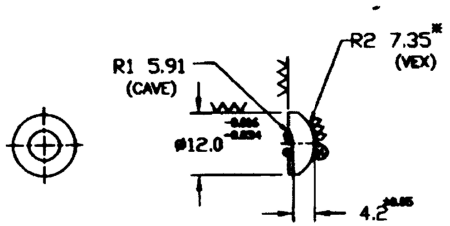
OPTICAL SPECIFICATIONS



MATERIAL	OPTICAL GRADE N TYPE MONO CRYSTALLINE SILICON	
	SURFACE R1	SURFACE R2*
CLEAR APERTURE	5.9	9.5
POWER (fringes) at 632.8 nm	1	< 400nm(Pv)
IRREGULARITY of FRINGE at 632.8 nm	1/3	-
COSMETIC QUALITY	80-40	<15nm (Ra)
EDGE CHAMFER	NOMINAL CHAMFERING ON EDGES	
ECCENTRICITY	1 min of an arc	

Aspheric	K	A	B	C	D
R2*	-1.400734	-0.367079E-03	-0.152509E-05	-0.470823E-08	0.595288E-09

The sag(z) of the aspheric surface is given by the formula

$$Z = \frac{ch^2}{1+\sqrt{1-(1+k)c^2h^2}} + Ah^4 + Bh^6 + Ch^8 + Dh^{10} + \ldots\ldots\ldots$$

Where c is the curvature =(1/R), k denotes the conic coefficient & A,B,C,D are the 4th, 6th, 8th and 10th order coefficients respectively.

COATINGS : THE FOLLOWING SPECIFICATIONS APPLY TO BOTH SURFACES :
HIGH DURABILITY AR COATING FROM 3.6-4.9 μm
SEVERE ABRASION AS PER MIL-C-48497A 4.5.5.1
SALT SOLUBILITY AS PER MIL-C-48497A 4.5.5.2.3
HUMIDITY AS PER MIL-C-48497A 4.5.3.2.(4)
TEMPERATURE AS PER MIL-C-48497A 4.5.4.1.(5)
SOLUBILITY AND CLEANABILITY AS PER MIL-C-48497A 4.5.4.2.(6)
ADHESION AS PER MIL-C-48497A 4.5.3.1
AVERAGE TRANSMISSION ≥ 95% AS MEASURED THROUGH 1 mm THICK WITNESS SAMPLE COATED IN THE SAME COATING RUN

VETTED
(A.K. GUPTA)
Sc. E, IRDE

POLISHED FINE ◇◇◇ | GROUND FINE ∨∨∨ | A.R. COATING ⊗

MATERIAL : AS GIVEN ABOVE
FINISH : AS GIVEN ABOVE

	NAME & SIG.	DATE
DRAWN BY	K S RANA	
CHECKED BY	KANCHAN CHANDRA	
CHECKED BY	RANBIR HANDAL	
APPROVED BY	P K SHARMA	
BASED ON		
USED ON		

SYMBOL	ZONE	ISSUE	AUTH	DATE
⊗	COATINGS	1		

ALL DIMENSIONS ARE IN mm

TITLE: LENS 5

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