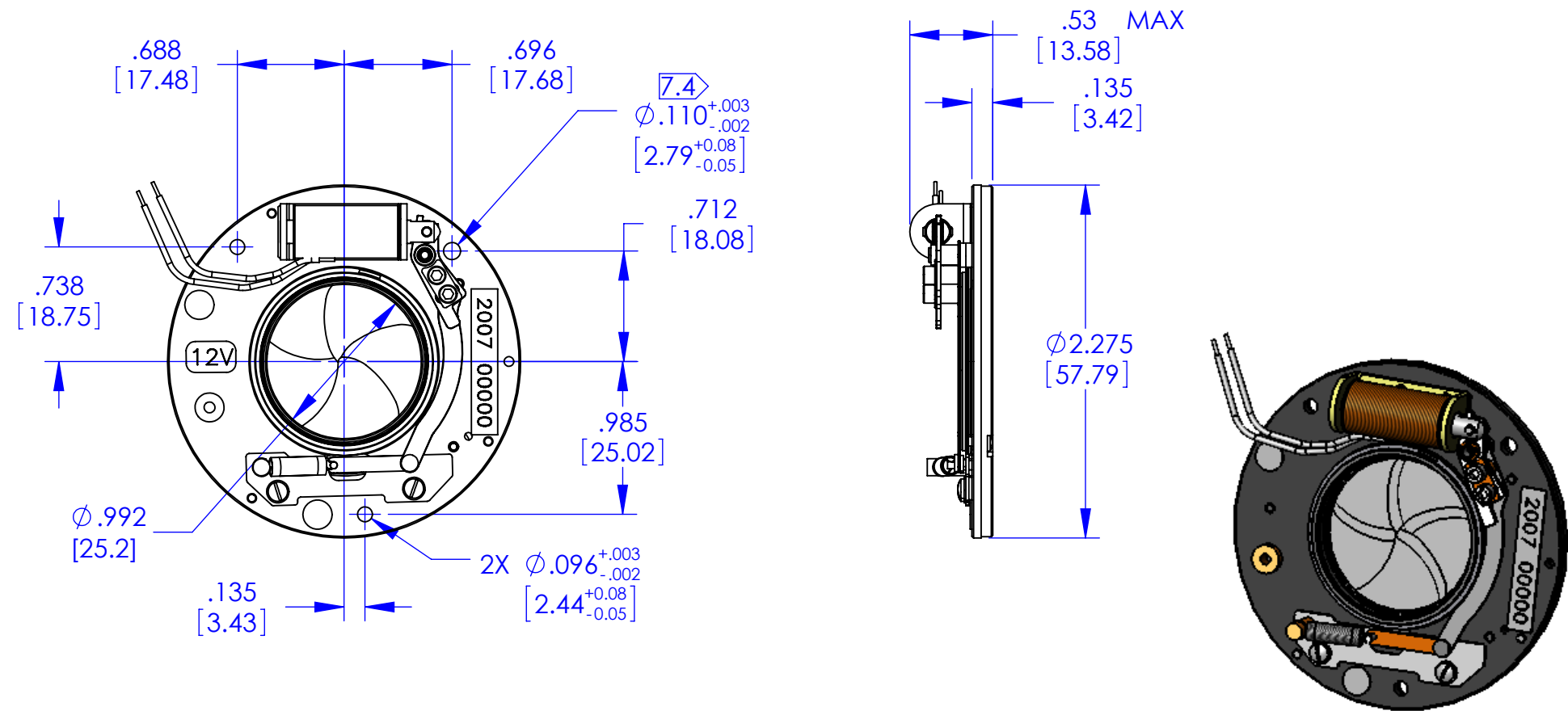


REVISION HISTORY						
ZONE	REV.	BY	DESCRIPTION	DATE	ECO	APPROVAL
	A	WJ	RELEASED FOR PRODUCTION	4/19/2006		

NOTES:

- 1.0 DESCRIPTION: EXTREME SERVICE SHUTTER FOR HARSH ENVIRONMENTAL CONDITIONS, NORMALLY CLOSED, 3 VOLT.
- 2.0 CLEAR APERTURE: .992 [25.2]
- 3.0 MAXIMUM SPEED: 1/60 SEC.
- 4.0 SHUTTER BLADES:
 - 4.1 NUMBER: 5
 - 4.2 COATING: COATED FOR HIGH EMISSIVITY IN THE INFRARED SPECTRAL REGION
- 5.0 ELECTRICAL:
 - 5.1 RATED SOLENOID VOLTAGE: 3VDC
 - 5.2 PEAK PULSE CURRENT: 4.0A
 - 5.3 RESISTANCE: 3 OHMS, NOMINAL
 - 5.4 INDUCTANCE: 2.7mH, NOMINAL
 - 5.5 HOLDING CURRENT: 500mA
 - 5.6 SOLENOID WIRE LENGTH: 2.0 [51]
- 6.0 OPERATING TEMPERATURE: -40°C TO +70°C
- 7.0 SHUTTER MOUNTING:
 - 7.1 SUGGESTED MOUNTING SCREWS: #2 (INCH) OR M2 (METRIC) SOCKET HEAD CAP SCREWS.
 - 7.2 MAXIMUM SCREW TORQUE: 25 OZ.-IN.
 - 7.3 DO NOT USE LIQUID THREAD LOCKER. (DUE TO RISK OF SHUTTER CONTAMINATION)
 - 7.4 VERIFY MOUNTING SCREW IN THIS AREA DOES NOT INTERFERE WITH THE SHUTTER DRIVE COMPONENTS IN THE ACTUATED OR UNACTUATED CONDITION.
- 8.0 DIMENSIONS ARE IN: INCHES [MILLIMETERS]
- 9.0 UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE NOMINAL.



UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISH BREAK SHARP EDGES: 0.005 X 45° MAX FILET RADIUS: 0.010 SURFACE FINISH: .32 TOLERANCES: .X ---- ±.02 ANGLES ---- ±1° .XX ---- ±.01 .XXX ---- ±.005 .XXXX ---- ±.0005	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DO NOT SCALE DRAWING THIRD ANGLE PROJECTION 	MATERIAL: CHEM. FINISH: DRAWN BY: W JOHNSON DATE: 4/19/06 APPROVAL:	MELLES GRLOT OPTICS GROUP 55 SCIENCE PARKWAY, ROCHESTER, N.Y. 14620				
	TITLE: SYSTEM DRAWING-#1 ESUT SHUTTER, NORMALLY CLOSED, 3V			SIZE: B	DWG. NO.: 25520-S/04ESC031	REV.: A	P NO.
	PROPRIETARY NOTICE: THIS DRAWING IS CONFIDENTIAL AND THE INFORMATION THEREON SHALL NOT BE COPIED NOR UTILIZED IN ANY WAY WITHOUT PERMISSION FROM MELLES GRLOT ROCHESTER. DRAWING TO BE RETURNED UPON REQUEST.			SCALE: 1:1	PATH: J:\	SHEET 1 OF 1	