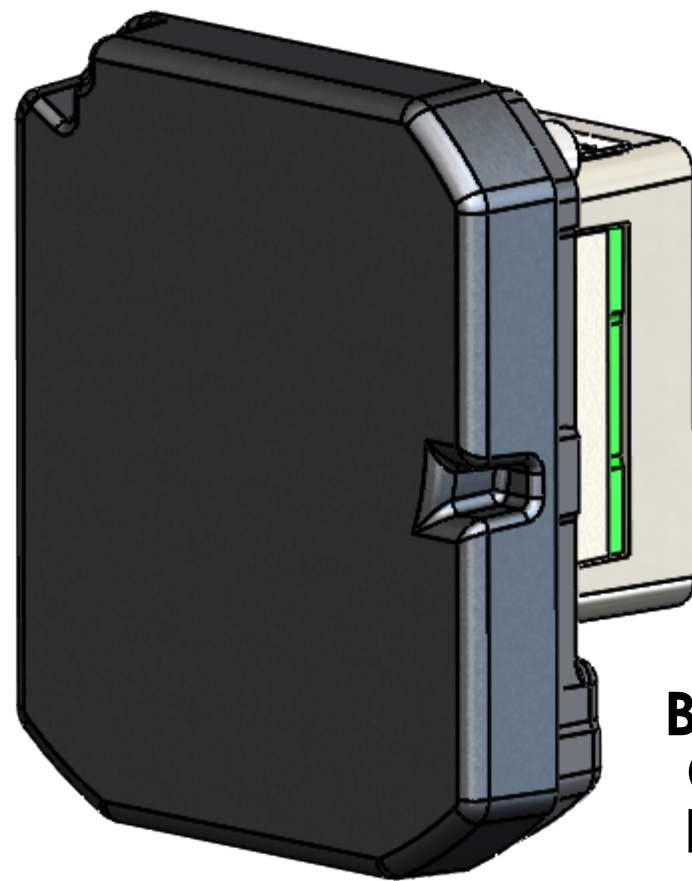
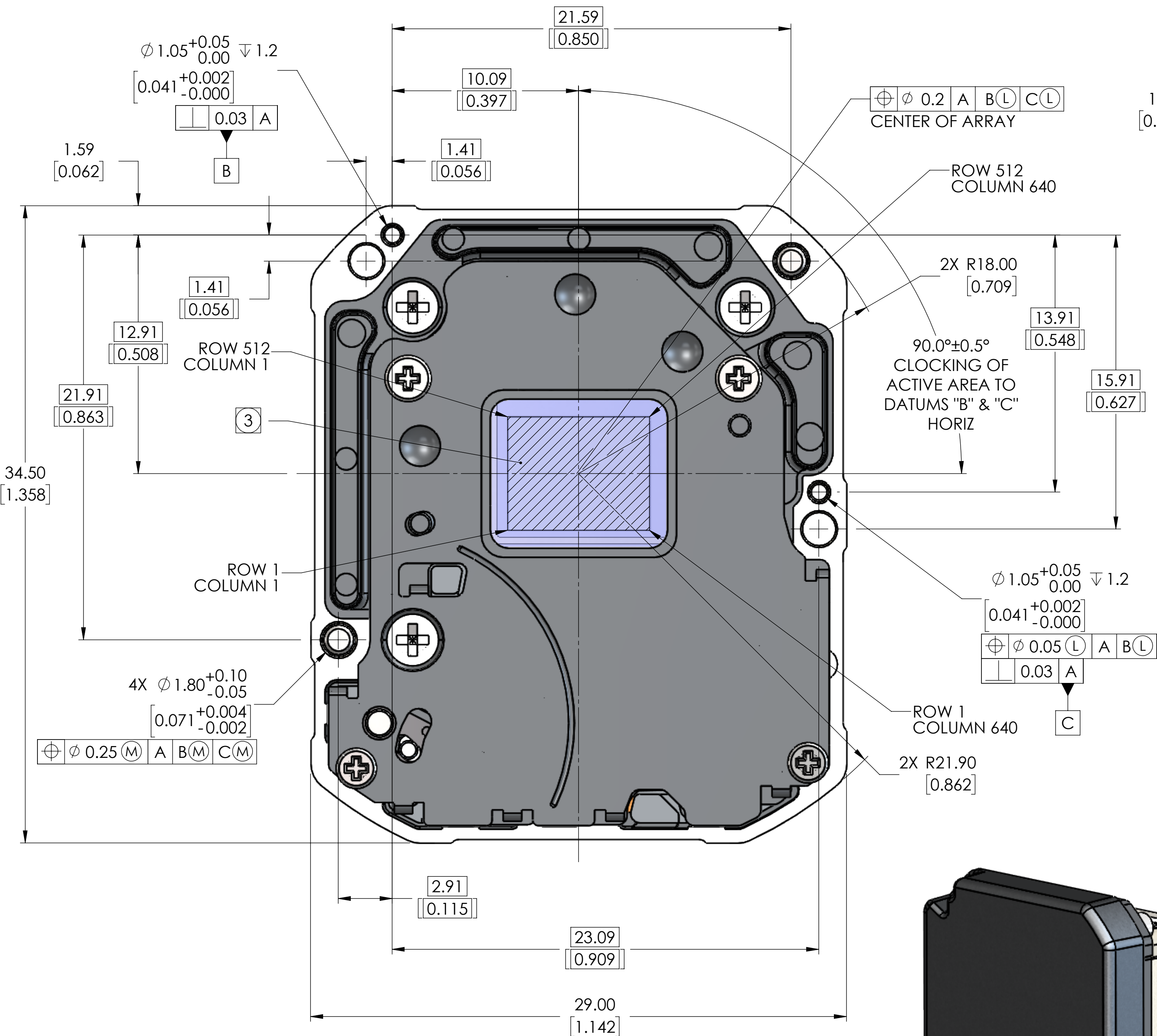


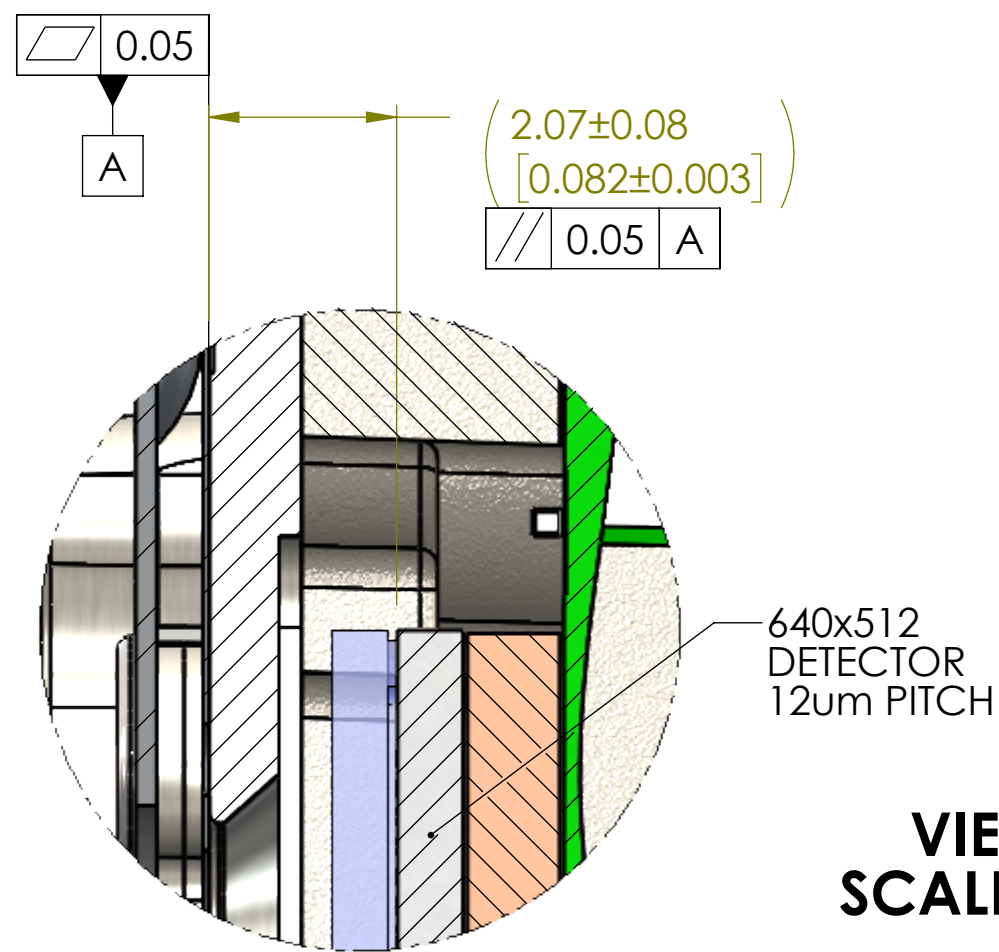
NOTES: UNLESS OTHERWISE SPECIFIED

1. INDICATED DIMENSIONS ARE FOR AN ARRAY SIZE OF 640x512.
2. CONECTOR INTERFACE: HIROSE DF40C-80DP-0.4V(51). MATING CONNECTOR HIROSE DF40C(4.0)80DS-0.4V(51). FOR PIN-OUT DESIGNATIONS SEE BOSON CAMERA USER MANUAL.
3. IT IS ESSENTIAL TO OPEN THE BOSON LENSLESS CORE ASSEMBLY IN A CLEANROOM ENVIRONMENT USING CLEANROOM PROTOCOLS. THE SENSOR WINDOW IS IN CLOSE PROXIMITY TO THE ACTIVE AREA SO ANY CONTAMINATION OR DEBRIS WILL BE IN SHARP FOCUS IN THE IMAGE. DEBRIS MAY BE BLOWN OFF THE WINDOW WITH COMPRESSED AIR BUT CONTACT WITH THE WINDOW ITSELF IS TO BE AVOIDED DUE TO THE FRAGILITY OF THE OPTICAL COATINGS. IT IS ALSO IMPERATIVE THAT THE FINAL ASSEMBLY STRUCTURE PROTECTS THE SENSOR WINDOW FROM ANY POSSIBLE DEBRIS OR CONTAMINATION.
4. THE BOSON CAMERA USES WIREBONDS TO CONNECT THE SENSOR TO THE PCBA. WIREBONDS ARE FRAGILE SO CARE MUST BE TAKEN NOT TO DISTURB THEM OR ALLOW DEBRIS SUCH AS METAL SHAVINGS TO CONTAMINATE THE ASSEMBLY WHICH COULD CAUSE SHORTING BETWEEN WIRES.

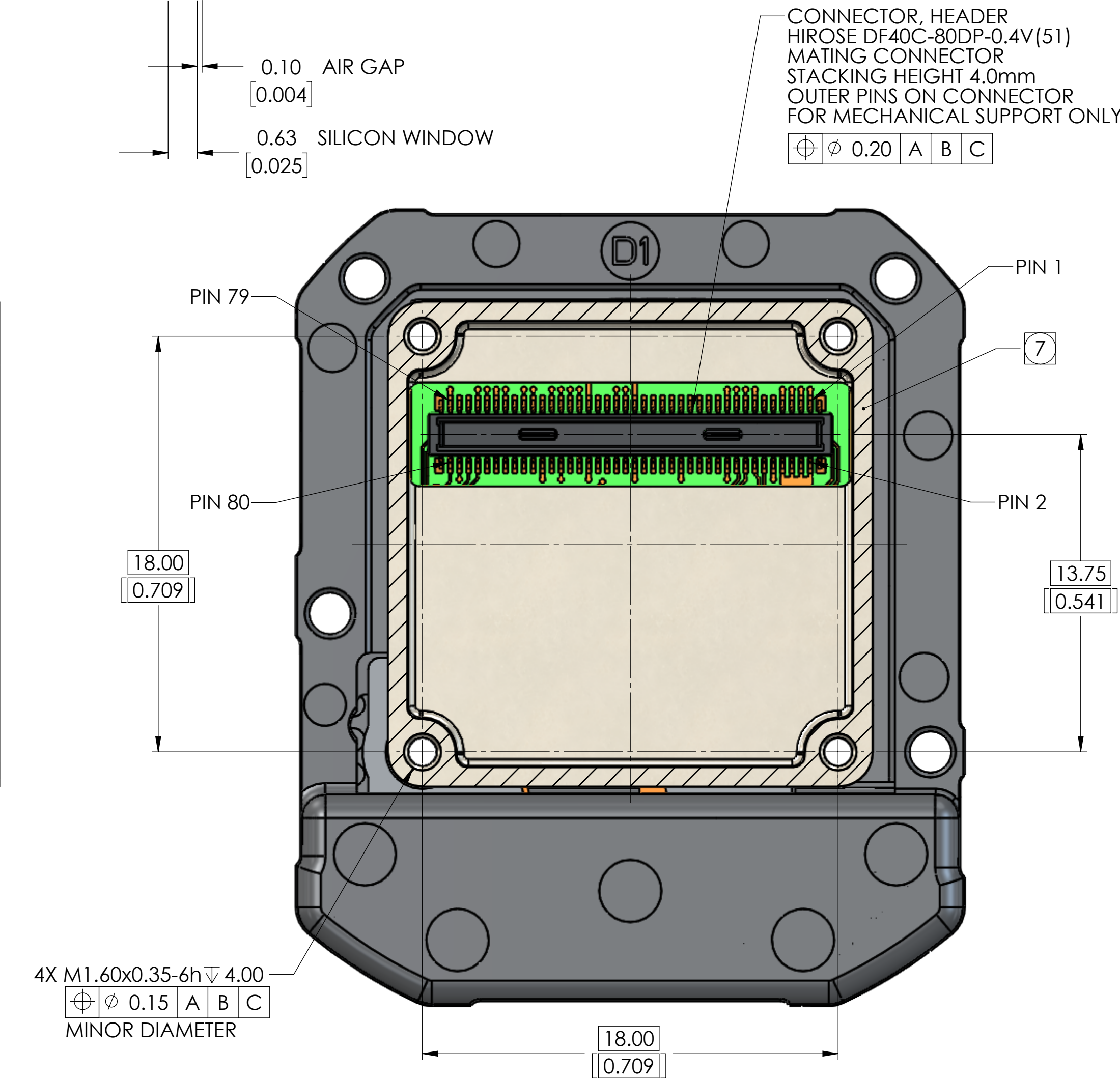
5. PLEASE BE AWARE THAT THE SCREWS MOUNTING THE PROTECTIVE COVER ALSO CLAMP THE CAMERA STRUCTURE TOGETHER. WITHOUT THE COVER IN PLACE THE SENSOR ASSEMBLY IS ONLY HELD TOGETHER WITH THE INTERFACE CONNECTORS. ANY FINAL ASSEMBLY SHOULD PROVIDE THE SAME CLAMPING SUPPORT PROVIDED BY THE SCREWS. (SEE SECTION "B-B")
6. ANY CUSTOMER DESIGNED LENS ASSEMBLIES OR MOUNTS MUST PROVIDE A SURFACE INTERFACING WITH DATUM "A" THAT IS FLAT TO 0.05mm AND HAS NO DEFECTS IN THE MECHANICAL INTERFACE OR UNDUE STRESS MAY BE IMPARTED TO THE SENSOR ASSEMBLY POSSIBLY CAUSING DAMAGE.
7. THE INDICATED SURFACE IS THE MOST OPTIMAL HEATSINKING SURFACE IN ORDER TO PROVIDE THE MOST UNIFORM THERMAL PERFORMANCE OF THE BOSON CAMERA CORE.



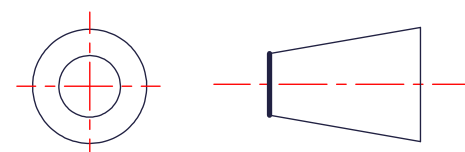
**BOSON 640 LENSLESS
CORE SHOWN WITH
PROTECTIVE COVER**



**VIEW C
SCALE 12 : 1**



THIRD ANGLE PROJECTION



METRIC

INTERPRET DRAWING
PER ASME Y14.5M-1994
UNLESS OTHERWISE SPECIFIED
SURFACE ROUGHNESS 32
X = ±.25
XX = ±.13
ANGULAR = ±.5°
FILLET RADII = .13 MAX

PROPRIETARY - FLIR SYSTEMS, INC.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION TO FLIR SYSTEMS, INC. THIS INFORMATION MUST BE MAINTAINED IN CONFIDENCE AND USED ONLY IN A MANNER CONSISTENT WITH THE DOCUMENTATION AND ANY EXECUTED NON DISCLOSURE AGREEMENT, AND MAY NOT BE DISCLOSED TO ANY THIRD PERSON WITHOUT FLIR'S WRITTEN CONSENT.

THIS DOCUMENT DOES NOT CONTAIN ANY EXPORT-CONTROLLED INFORMATION.

MATERIAL		PROJECT NO.		APPROVALS		DATE		TITLE	
FINISH		DWN		COVINGTON		08/01/16		ICD, 20-640 BOSON LENSLESS CAMERA CORE	
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN MM. ALL DIMENSIONS IN () ARE INCHES. DO NOT SCALE DRAWING.		CHK						SIZE D	
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN MM. ALL DIMENSIONS IN () ARE INCHES. DO NOT SCALE DRAWING.		DSGN						CAGE 064Y2	
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN MM. ALL DIMENSIONS IN () ARE INCHES. DO NOT SCALE DRAWING.		ENG						DWG NO. 20-640 LCS	
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN MM. ALL DIMENSIONS IN () ARE INCHES. DO NOT SCALE DRAWING.		APP						REV P04	
CALC WT:								SCALE 6:1	
								PRINTED: 4/30/2020	
								SHEET 1 OF 1	



FLIR Systems, Inc.
6769 Hollister Ave
Goleta, CA 93117

ICD, 20-640 BOSON LENSLESS CAMERA CORE

SIZE D CAGE 064Y2 DWG NO. 20-640 LCS REV P04

SCALE 6:1 PRINTED: 4/30/2020 SHEET 1 OF 1

SOLIDWORKS MODEL: 20-Boson Camera Core

MODEL REVISION: N