

MATERIAL

- Plate: 316 SST
- Pin: Kovar K94610
- Dielectric: Glass, Borosilicate, Corning 7070
- Interposer and CC: BeCu Alloy C17300
- Dielectric: PEEK
- Insert: 303 SST
- Hdwr: 18-8 SST
- O-ring: Butyl Polymer

FINISH

- Plate and pin
Nickel non-magnetic per ASTM B733,
1.27um [50uin] min over Copper 0.25um
[10uin] min
- Interposer and CC
Gold 1.27um [50uin] min over Copper
2.54um [100uin] min
- Insert and Hdwr
Passivated

ELECTRICAL

- Impedance: 50Ω Nominal
- Frequency range: DC to 20 GHz
- RL: ①
≤ -20dB DC - 6GHz
≤ -15dB 6 - 20GHz
- IL: ≤ -0.26dB
- Insulation Resistance: 5000 MΩ min
- Dielectric Withstanding Voltage: 350 Vrms max
- Working Voltage: 115 Vrms max @ Sea Level

MECHANICAL

- Mating Characteristics:
CoreHC(TM) Interface
- Connector Durability: ≥ 1000 Cycles
- Permeability: <1.1 Mu
- Leak Rate: ≤ 2.0E-09 Torr-L/s
- Cable Assy installation ②

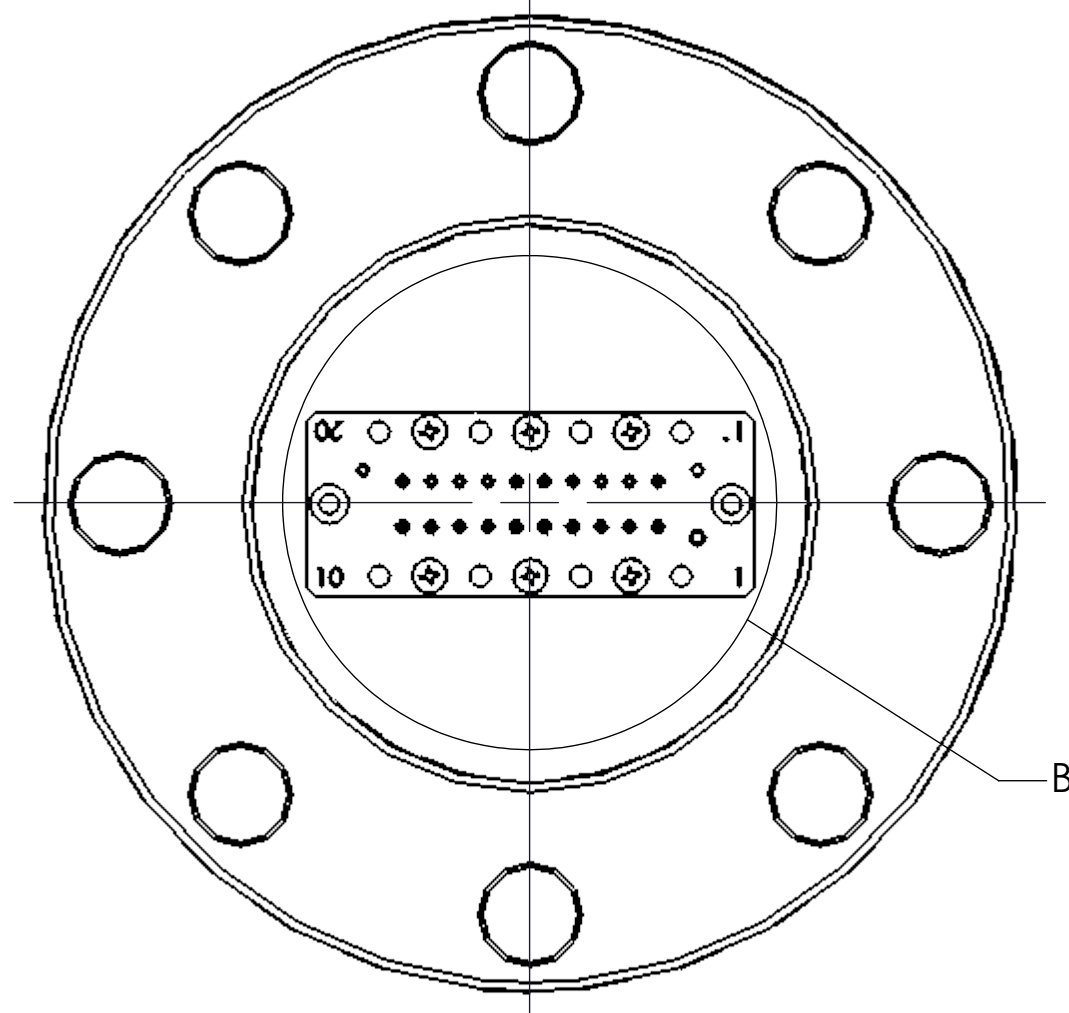
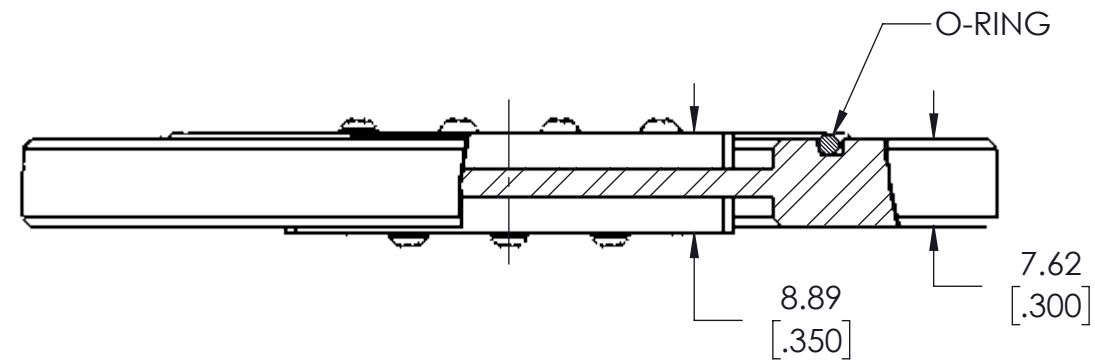
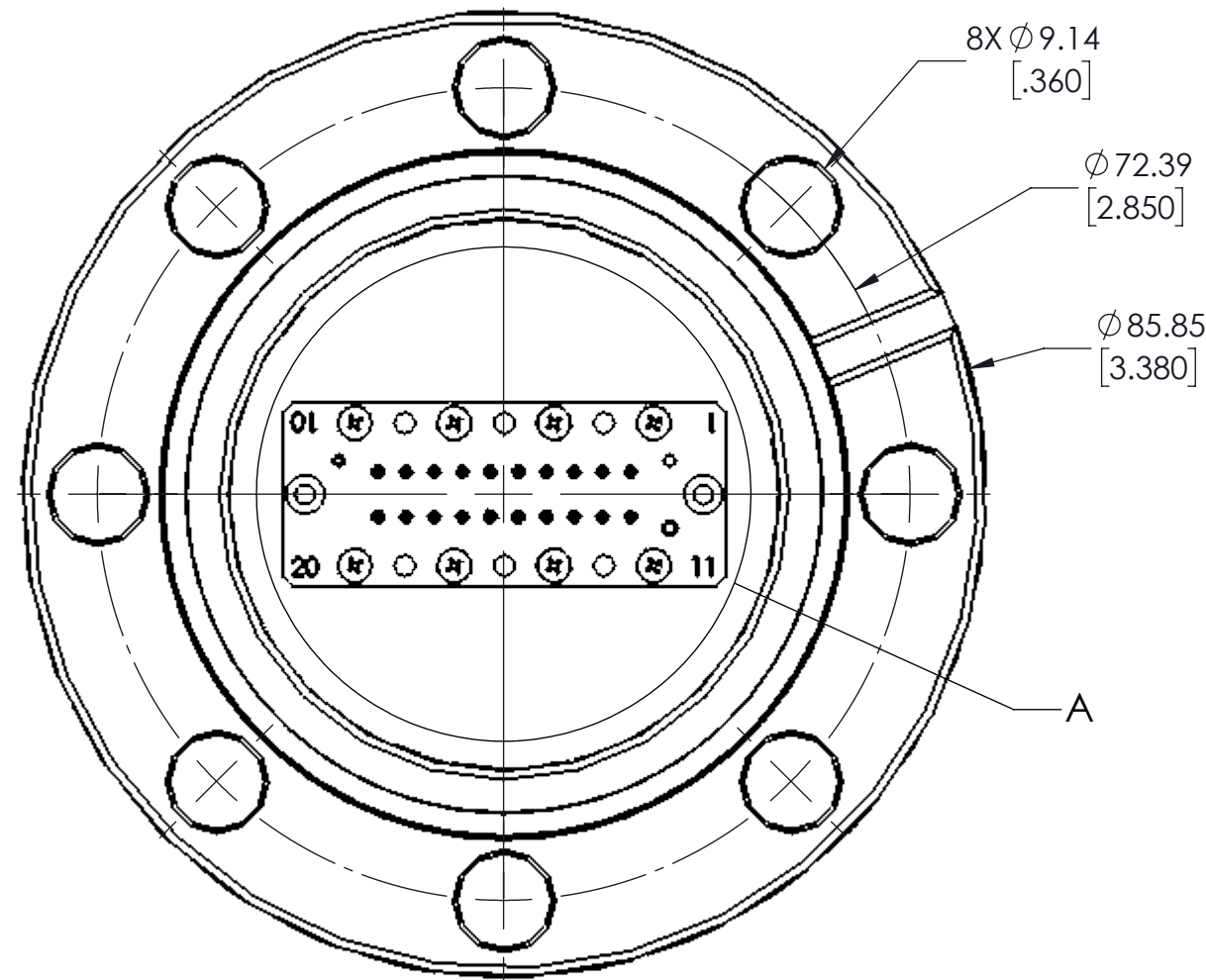
ENVIRONMENTAL

- Temperature Range:
-273°C to +85°C
- Thermal Shock:
MIL-STD-202, Method 107, Test Cond. B
- Moisture Resistance:
MIL-STD-202, Method 106
- Corrosion:
MIL-STD-202, Method 101, Test Condition B
- Vibration:
MIL-STD-202, Method 204, Test Condition B
- Shock:
MIL-STD-202, Method 213, Test Condition I

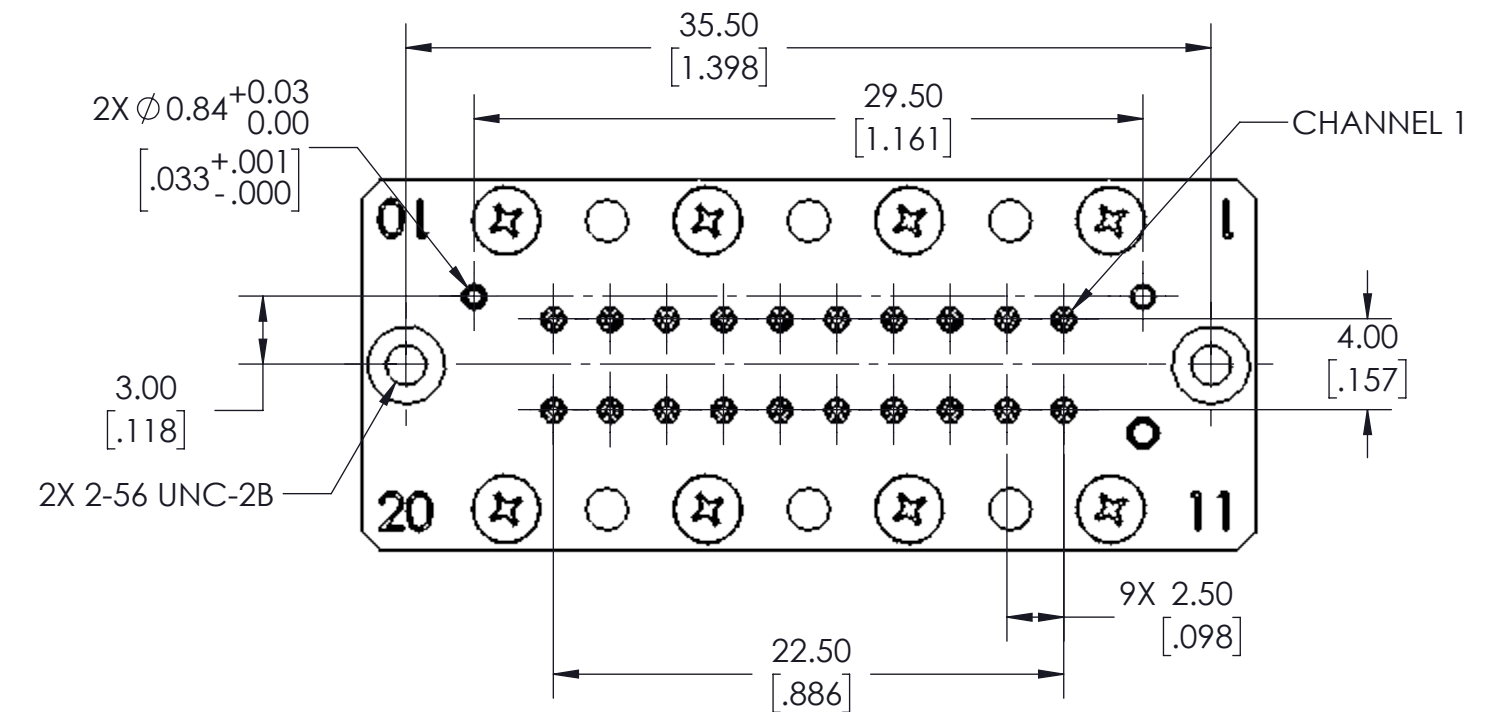
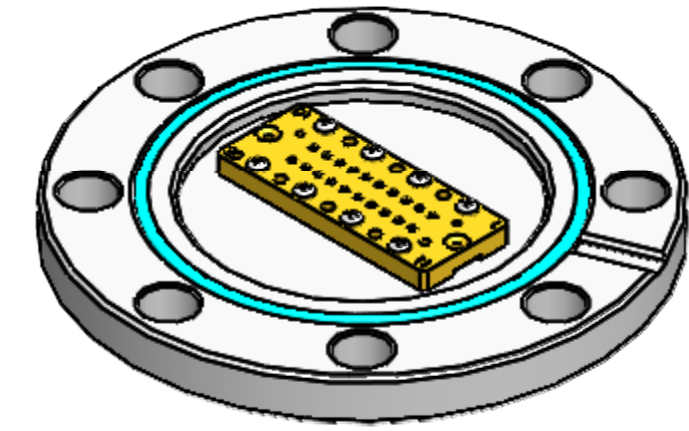
NOTE(S): UNLESS OTHERWISE SPECIFIED

- ① Tested with TM7S-S-ST28R-8MS015C Cable Assy.
- ② Refer to CoreHC Installation Guide for recommended assembly procedure.
3. See sheet 2 for integration guide.

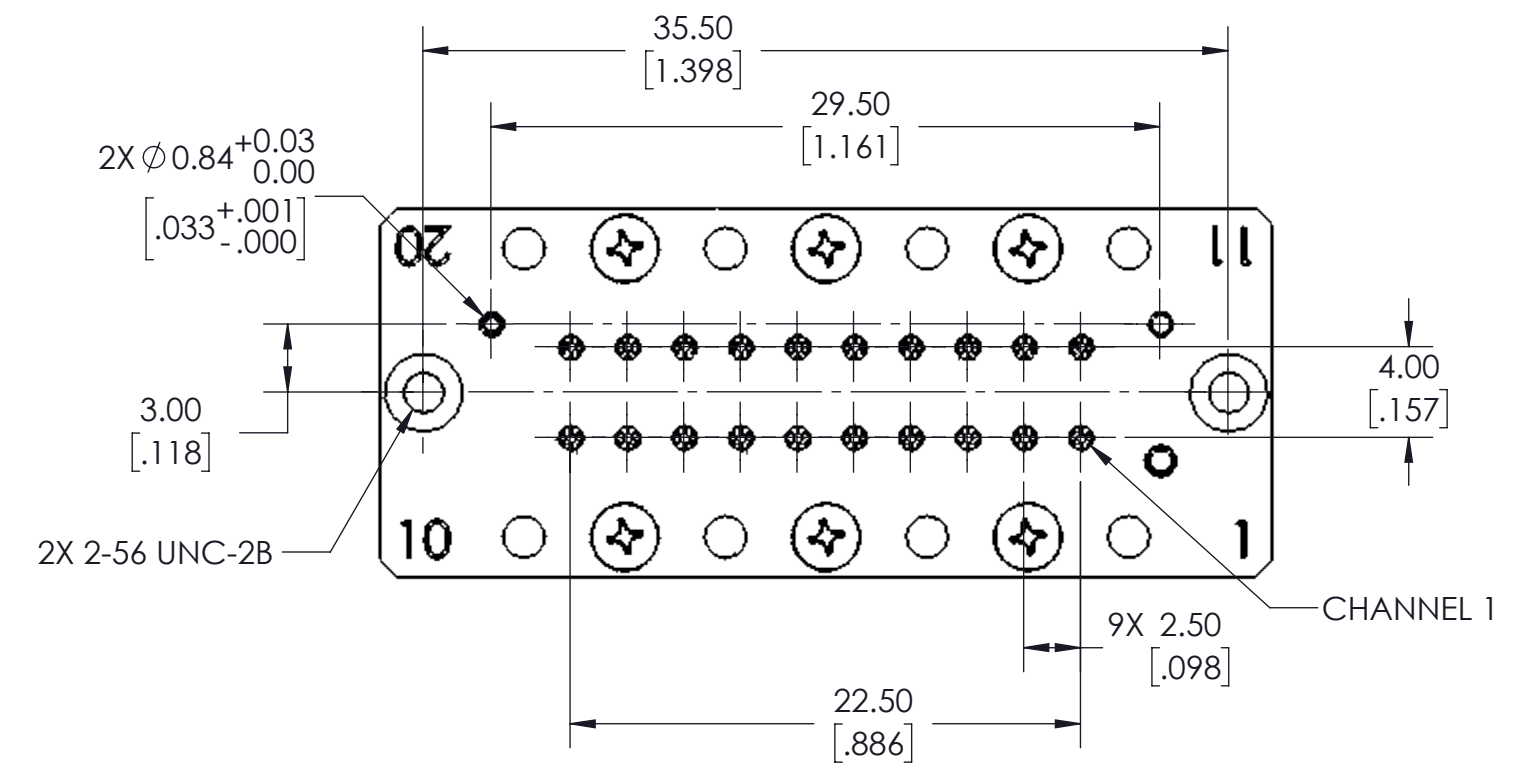
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
01	INITIAL RELEASE	05/14/25	PV
02	UPDATED CAGE CODE	6/5/2025	PV



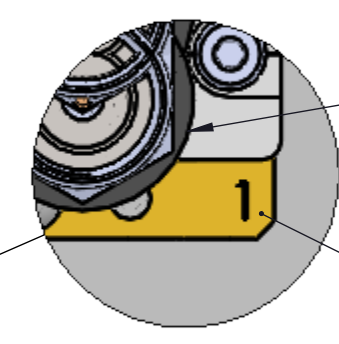
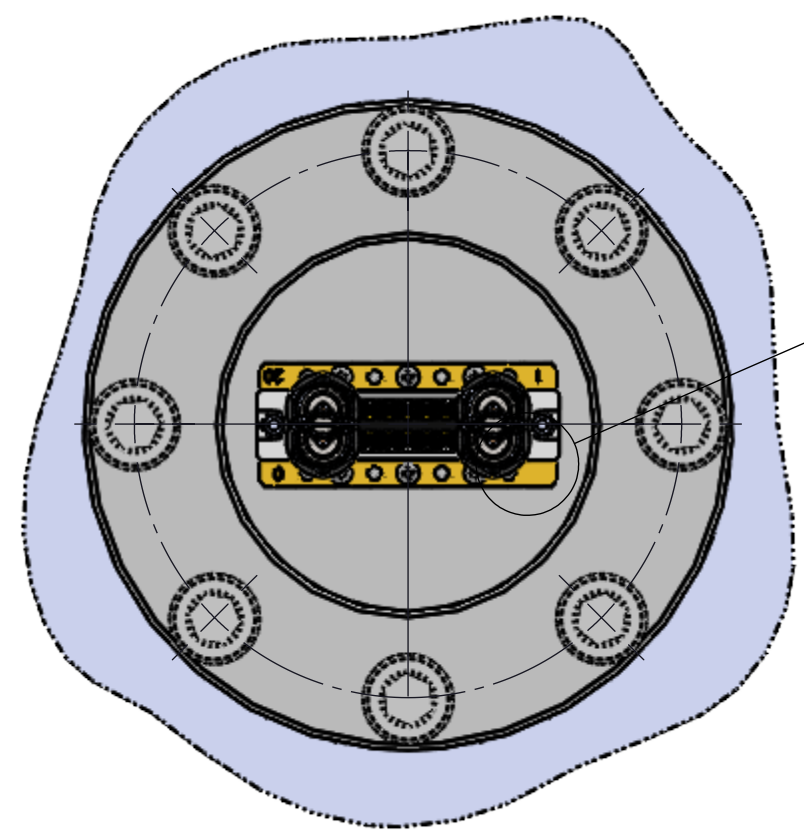
DETAIL A
SCALE 3 : 1



DETAIL B
SCALE 3 : 1

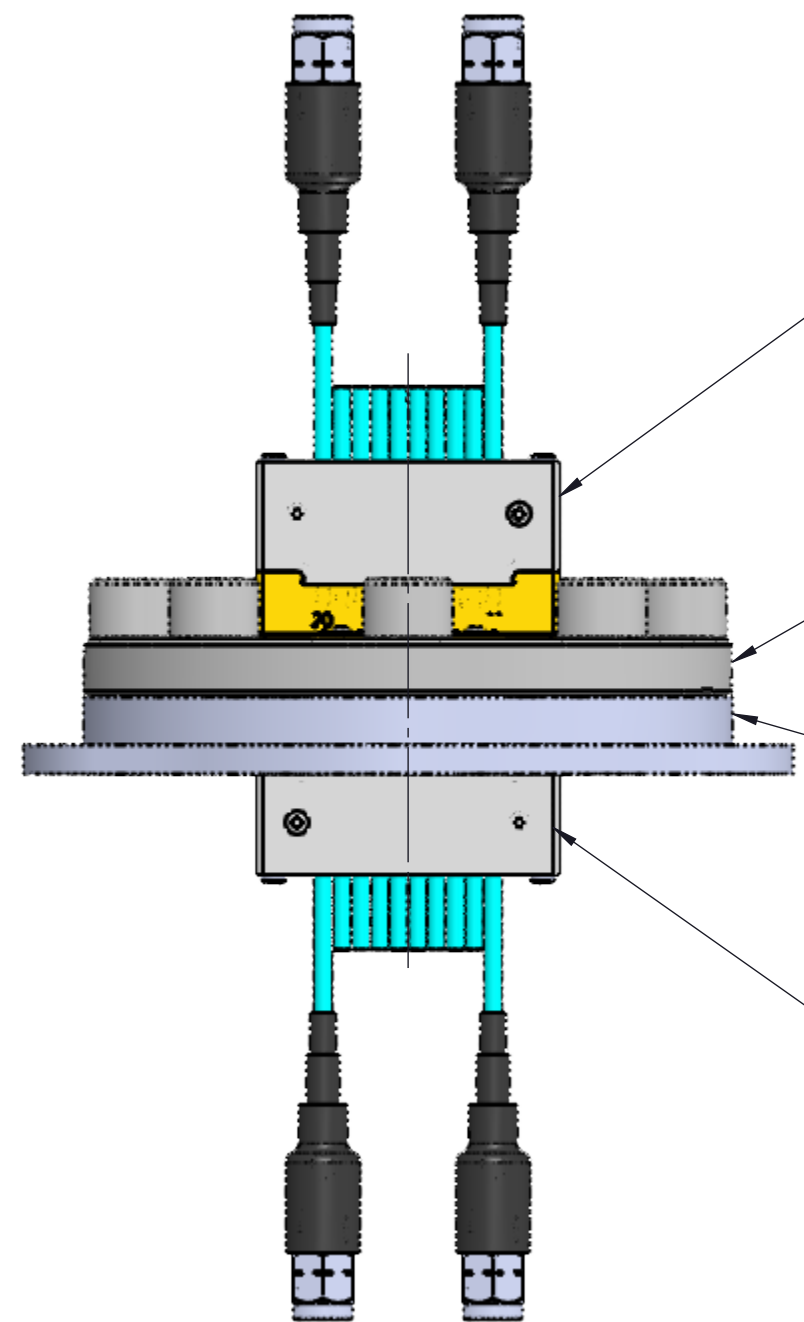
DIMENSIONS ARE IN MILLIMETERS/INCHES ± TOLERANCES UNLESS OTHERWISE NOTED				THIRD ANGLE PROJECTION		Amphenol			
.XXX	.XXXX	ANGLE	FRACTIONS	 DESIGN ENGR: P VOLKOV 04/14/25 DESIGNED BY: P VOLKOV 04/14/25 PRODUCT: QUALITY: MFG:		TITLE Hermetic Plate Assy, CoreHC, 20 Channel			
0.076 [0.003]	0.013 [0.0005]	0.5				SIZE C	CAGE CODE 30990	CARLISLE NUMBER TM50-0129-02	REV 02
NEXT ASSY.		USED ON		APPLICATION		SCALE: 3:2	DO NOT SCALE DRAWING	1 OF 2	





DETAIL C
SCALE 3 : 1

Channel 1
Channel number labelled on hermetic plate

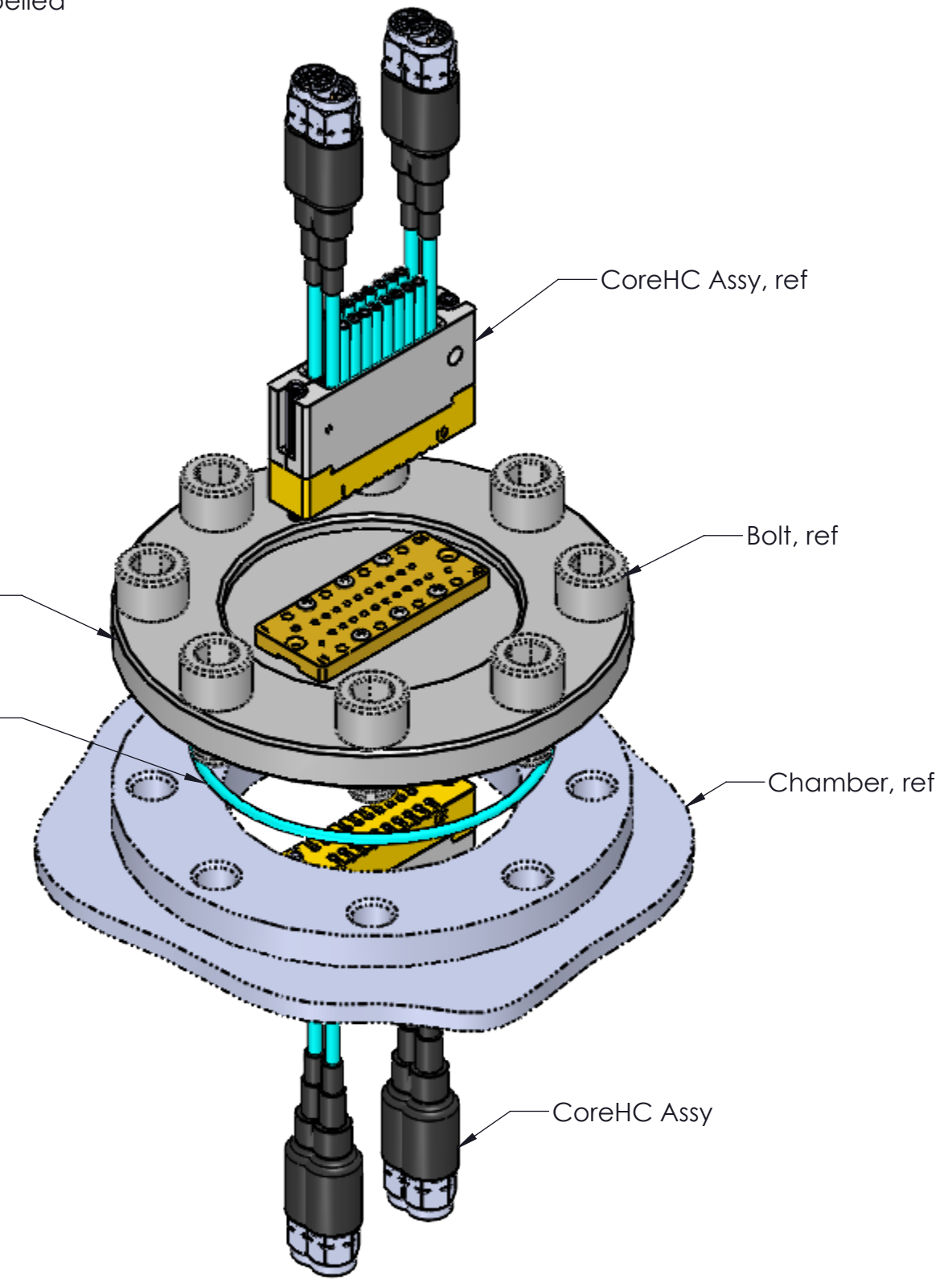


CoreHC Assy
PN: TM7S S DT10R XXX XXX X
ref
②

Hermetic Plate
PN: TM50-0129-02
(described in this document)

Chamber
ref

CoreHC Assy
PN: TM7S S DT10R XXX XXX X
ref
②



Hermetic Plate
(component in TM50-0129-02,
described in this document)

O-Ring
(component in TM50-0129-02,
described in this document)

CoreHC Assy, ref

Bolt, ref

Chamber, ref

CoreHC Assy



Hermetic Plate Assy,
CoreHC, 20 Channel

SIZE C	CAGE CODE 30990	PART NUMBER TM50-0129-02	REV 02
SCALE: 1:1		2 OF 2	