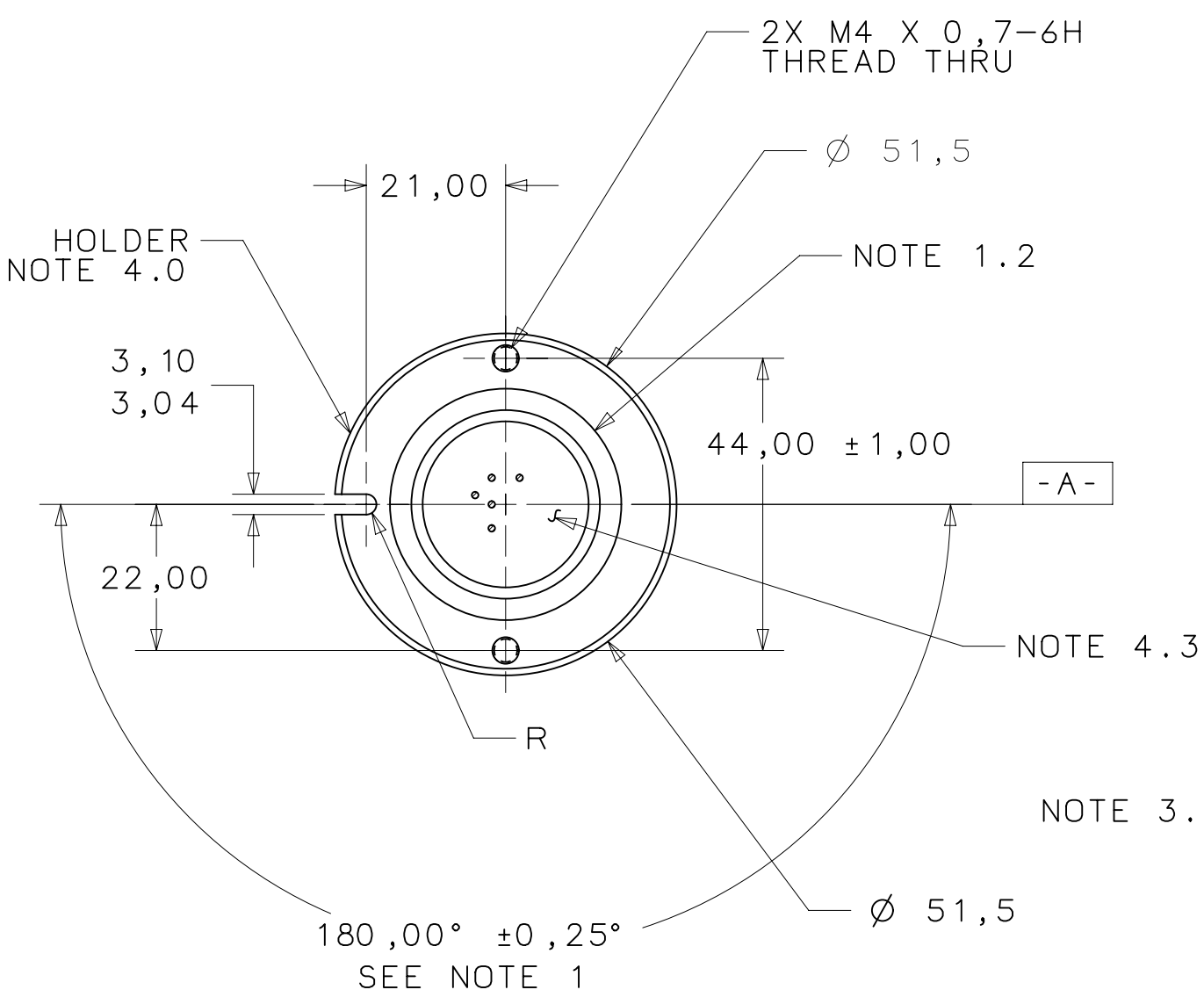
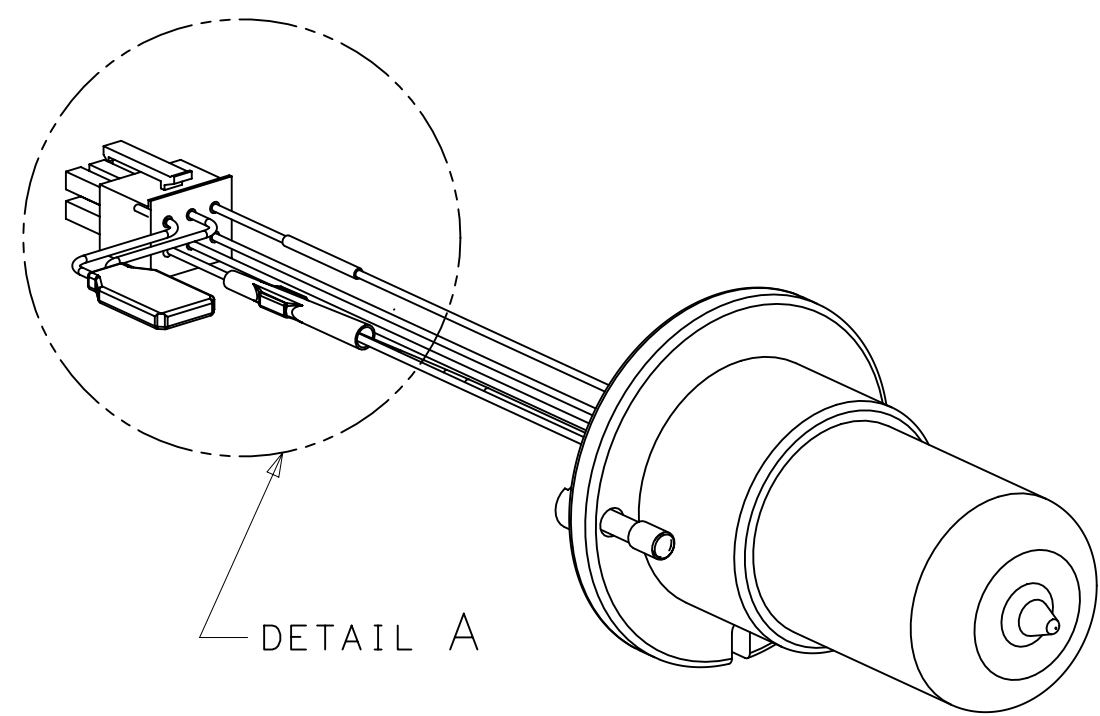
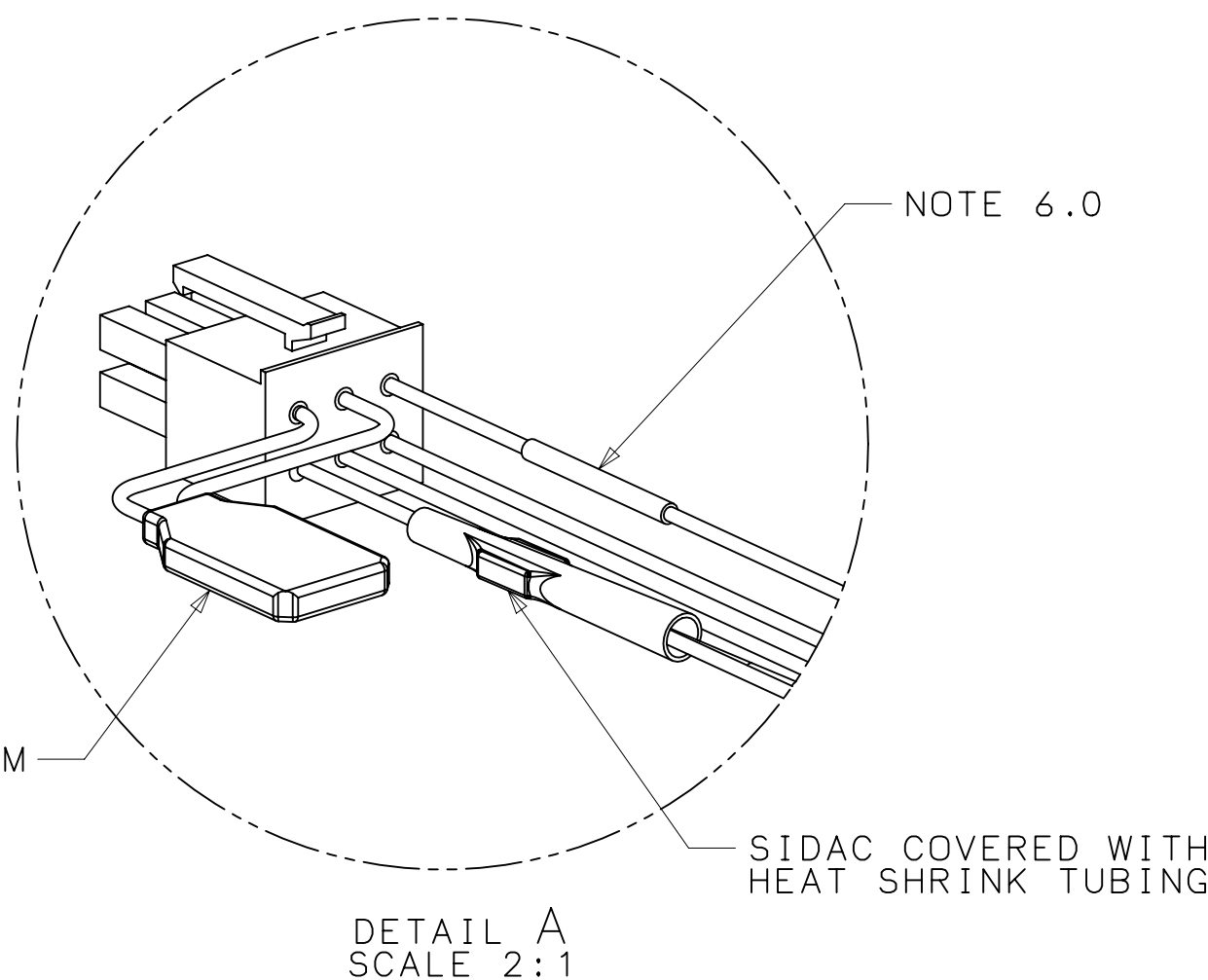
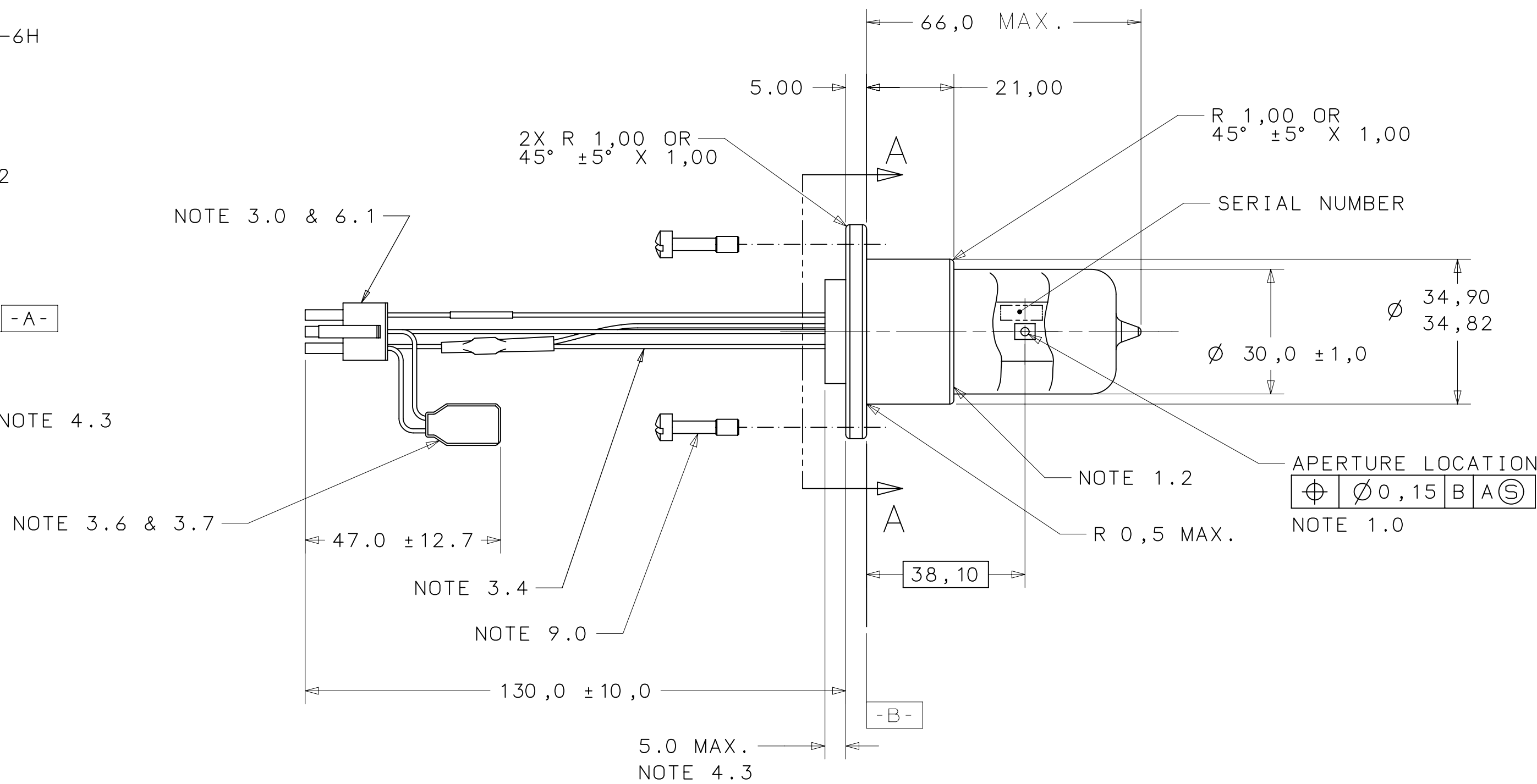
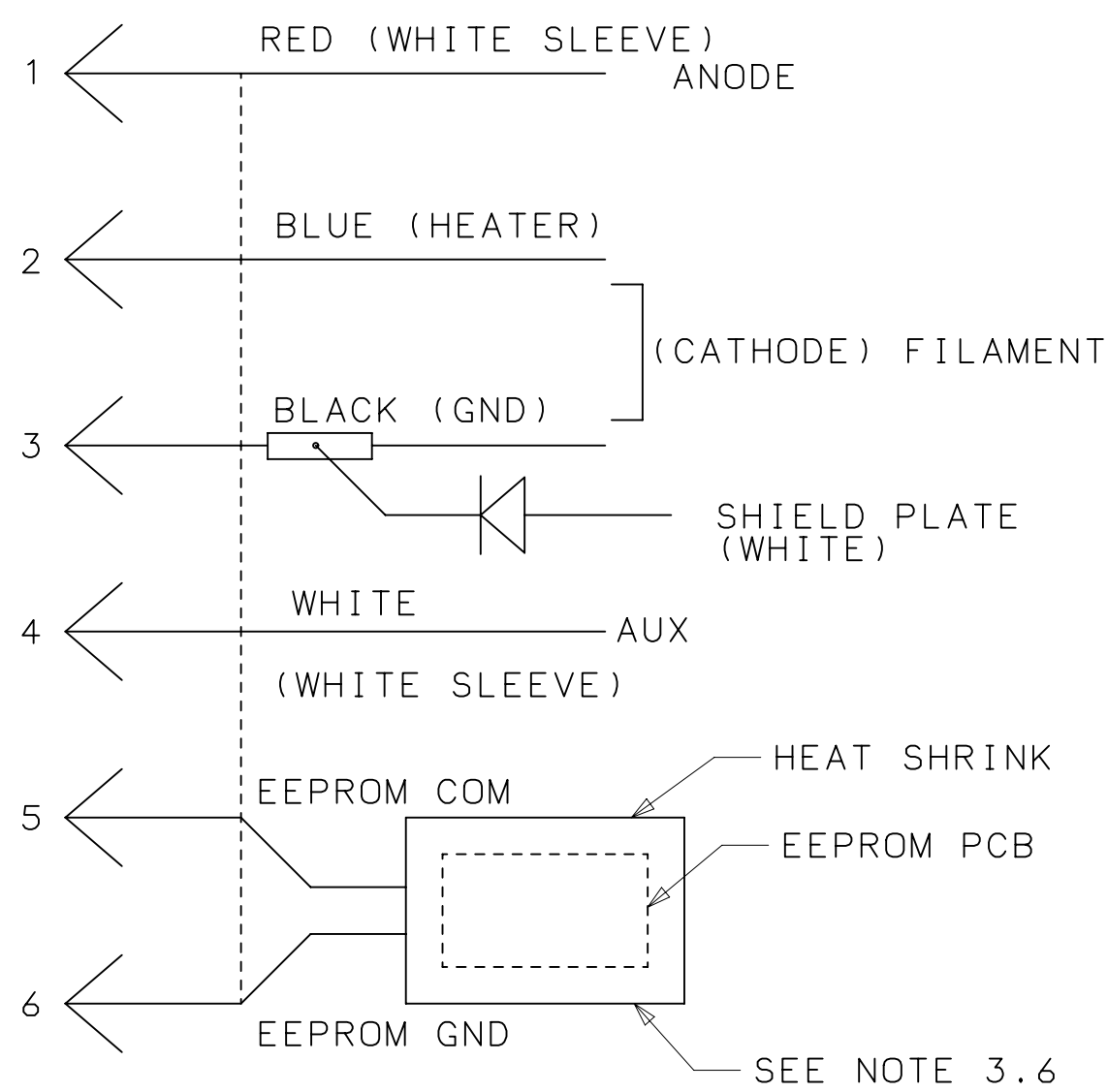




VIEW A-A
CAPTIVE SCREWS NOT SHOWN



CONNECTOR PIN-OUT



NOTES:

- 1.0 ASSEMBLY NOTES
 - 1.1 LAMP APERTURE SHALL BE ALIGNED TO THE POSITION SHOWN WHILE THE LAMP IS HOT (RUNNING)
 - 1.2 POTTING MATERIAL: INORGANIC ADHESIVE CEMENT
 - 1.3 CATHODE WELDING: NICKEL LASER WELDING
 - 2.0 LAMP NOTES
 - 2.1 DESCRIPTION: LAMP, DEUTERIUM, HIGH BRIGHTNESS
 - 2.2 TECHNICAL DATA:

SPECTRAL DISTRIBUTION:	185 TO 900 nm
UV GLASS:	CIRCULAR (Ø 0.5 mm)
ANODE:	RED (WITH SLEEVE)
FILAMENT:	(HEATER) BLUE
CATHODE:	BLACK
AUX:	WHITE (WITH SLEEVE)
STARTING VOLTAGE (Vdc):	400 (MAX)
OPERATING VOLTAGE (Vdc):	70-100 INITIAL ANODE-CATHODE
OPERATING CURRENT (mA _{dc}):	110 MAX OVER LAMP LIFE
FILAMENT CURRENT, STARTING:	300 (±30)
FILAMENT CURRENT, OPERATING:	4.0 AMPS
FILAMENT VOLTAGE, STARTING:	3.3 AMPS
FILAMENT VOLTAGE, OPERATING:	2.5 ± 0.25 Vdc
OPERATING CHARACTERISTICS:	1.7 ± 0.20 Vdc
 - 2.3 OPERATING CHARACTERISTICS:

ARC DIAMETER (mm)	(0,5)
LIFE:	
TO 50% OF INITIAL RADIANCE	
AT 230 nm, BANDWIDTH=4 nm:	AT 300 mA _{dc} : 1000 HR. MIN.
LAMP SHALL LIGHT REGARDLESS OF RADIANCE FOR 2000 HRS. MIN.	
RADIANCE DEGRADATION NOT TO EXCEED - .18%/HR. UNDER ABOVE CONDITIONS. LAMPS SHALL BE BURNED IN UNTIL THE DEGRADATION RATE IS LESS THAN THIS MAXIMUM (72 HRS. TYP).	
 - 3.0 CONNECTOR NOTES:
 - 3.1 LAMP IS TO BE SUPPLIED WITH ELECTRICAL CONNECTOR.
 - 3.2 PLUG: MOLEX P/N 039-01-2060.
 - 3.3 TERMINALS (QTY=6): MOLEX P/N 39-00-0428 (LOOSE).
 - 3.4 LEADS: OF CONNECTOR MUST BE SLEEVED WITH UL STD 1441, 200°C-600V SILICONE COATED FIBERGLASS SLEEVING (WHITE).

FILAMENT:	PIN 2 BLUE
PIN 3 (GND):	BLACK
SHIELD BOX:	TO SIDAC ANODE (WHITE)
 - 3.5 SIDAC: P/N G1V(A)20C
CATHODE CONNECTED TO GROUND WIRE (BLACK) VIA SPLICE AND COVERED WITH HEAT SHRINK TUBING.
ANODE CONNECTED TO THE SHIELD COVER WIRE (WHITE).
 - 3.6 INSTALL EEPROM ID PCB AS SHOWN.
EEPROM IS DALLAS P/N DS-2431P+
CONNECT EEPROM COMMUNICATION WIRE TO PIN 5
CONNECT EEPROM GND TO PIN 6
PLACE HEAT-SHRINK TUBING OVER THE EEPROM PCB
 - 3.7 TEST EEPROM FUNCTIONALITY PER WATERS TEST PROCEDURE 735002120.
- 4.0 HOLDER NOTES:
 - 4.1 MATERIAL: ALUMINUM
 - 4.2 FINISH: ANODIZE CLEAR
 - 4.3 SI POTTING COMPOUND OR A MECHANICAL OPAQUE CAP MUST BE USED SUCH THAT NO LIGHT BE VISIBLE FROM REAR OF LAMP DURING OPERATION.
 - 4.4 ALL DIMENSIONS APPLY AFTER FINISHING.
 - 5.0 PACKAGING NOTES:
 - 5.1 LAMP TO BE PACKAGED IN LINT FREE, SHOCK RESISTANT, BOXES: 3'X3'X5' WHITE BOX LABELED WITH WATERS P/N 402000353.
 - 6.0 EACH LAMP SHALL BE LABELED WITH THE WORD "WATERS" AND WATERS P/N 402000353. THIS LABEL IS TO BE AFFIXED TO THE LEADS APPROXIMATLEY WHERE SHOWN.
 - 6.1 EACH LAMP SHALL BE MARKED WITH DATE CODE, APPROXIMATELY 3 X 9 mm.
 - 7.0 ALL DIMENSIONS ARE IN MILLIMETERS. TOLERANCES ON DIMENSIONS: .XX=±0,3; .XXX=±0,13; ANGLES=±0.5°, UNLESS OTHERWISE SPECIFIED.
 - 8.0 THIS PART HAS BEEN CLASSIFIED AS A "SPECIAL PROCESS" PART. ANY CHANGES TO THIS DRAWING SHALL BE REVIEWED FOR IMPACT ON THE WATERS "SPECIAL PROCESSES" QUALIFICATION. CONSULT SOP DOCUMENT #WAT077156SO FOR REVIEW PROCESS.
 - 9.0 INSTALL TWO (2) CAPTIVE SCREWS, WATERS P/N WAT081213, AS SHOWN.
 - 10.0 APPROVED SOURCE(S):

HAMAMATSU	P/N: L9790-01AP
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 - 11.0 SIDAC WAS REPLACED STARTING WITH S/N HX6421

SOURCE CONTROL DRAWING

FOR DIMENSION AND TOLERANCING USE BS 8888	UNLESS OTHERWISE SPECIFIED All dimensions are in millimeters Remove all burrs and break sharp edges. Tolerances: Decimals 0.0 = ±0.3 0.1 = ±0.25 0.2 = ±0.25 0.3 = ±0.25 0.4 = ±0.25 0.5 = ±0.25 0.6 = ±0.25 0.7 = ±0.25 0.8 = ±0.25 0.9 = ±0.25 1.0 = ±0.25 1.2 = ±0.25 1.5 = ±0.25 2.0 = ±0.25 2.5 = ±0.25 3.0 = ±0.25 4.0 = ±0.25 5.0 = ±0.25 6.0 = ±0.25 8.0 = ±0.25 10.0 = ±0.25 12.0 = ±0.25 15.0 = ±0.25 20.0 = ±0.25 25.0 = ±0.25 30.0 = ±0.25 40.0 = ±0.25 50.0 = ±0.25 60.0 = ±0.25 80.0 = ±0.25 100.0 = ±0.25 120.0 = ±0.25 150.0 = ±0.25 200.0 = ±0.25 250.0 = ±0.25 300.0 = ±0.25 400.0 = ±0.25 500.0 = ±0.25 600.0 = ±0.25 800.0 = ±0.25 1000.0 = ±0.25 1200.0 = ±0.25 1500.0 = ±0.25 2000.0 = ±0.25 2500.0 = ±0.25 3000.0 = ±0.25 4000.0 = ±0.25 5000.0 = ±0.25 6000.0 = ±0.25 8000.0 = ±0.25 10000.0 = ±0.25 12000.0 = ±0.25 15000.0 = ±0.25 20000.0 = ±0.25 25000.0 = ±0.25 30000.0 = ±0.25 40000.0 = ±0.25 50000.0 = ±0.25 60000.0 = ±0.25 80000.0 = ±0.25 100000.0 = ±0.25 120000.0 = ±0.25 150000.0 = ±0.25 200000.0 = ±0.25 250000.0 = ±0.25 300000.0 = ±0.25 400000.0 = ±0.25 500000.0 = ±0.25 600000.0 = ±0.25 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