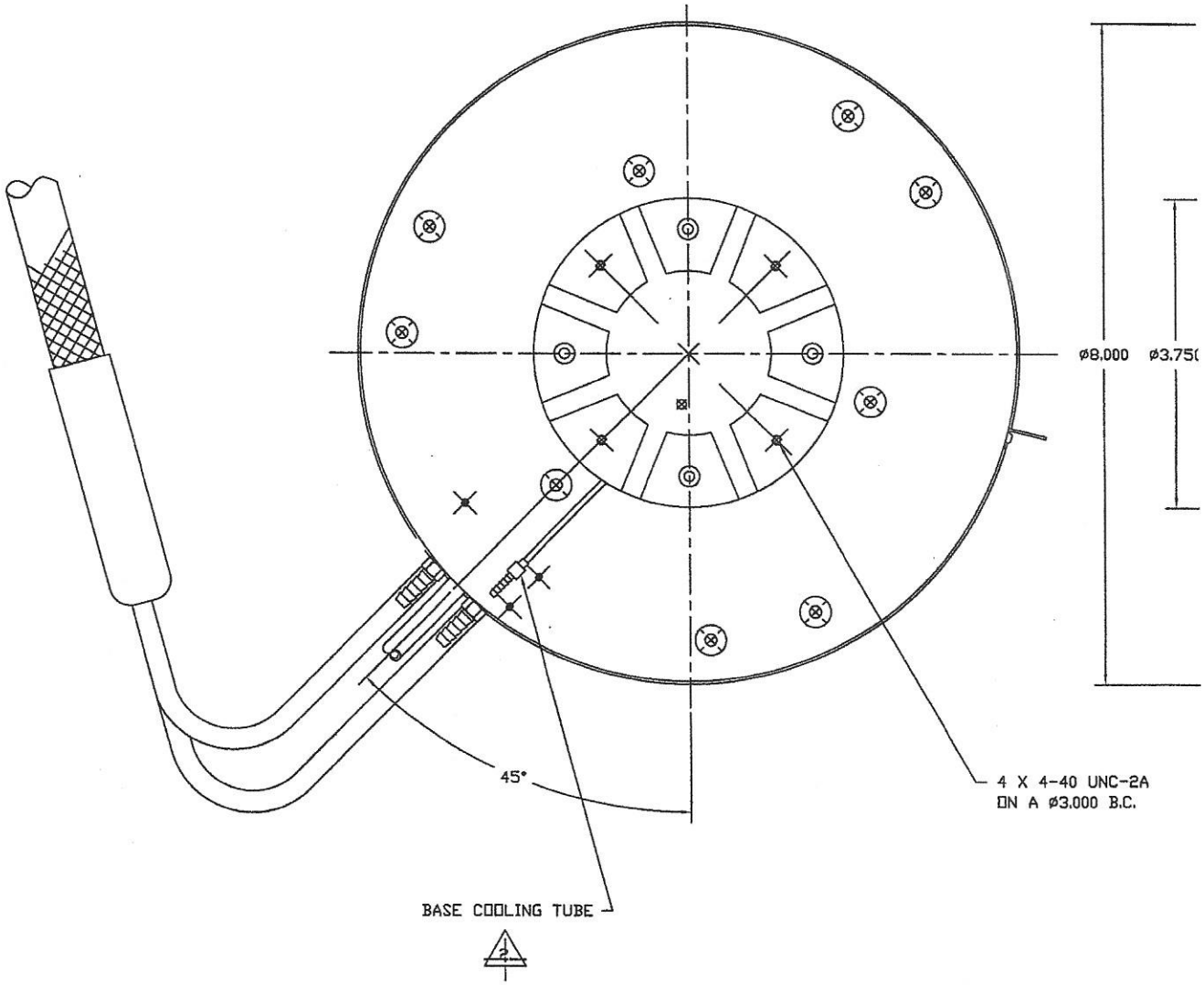


THERMO
TEMP RANGE
FLATNESS/PARALLELIS
SURFACE/GRND ISOLATIO
SURFACE/GRND CAP

2. TO PREVENT HEAT RADIATION TO PROBER AT ELEVATED OPERATING TEMPERATURES, SUPPLY 50 PSI OF AIR TO BASE COOLING TUBE USING 1/16 I.D. SILICONE TUBING SUPPLIED.

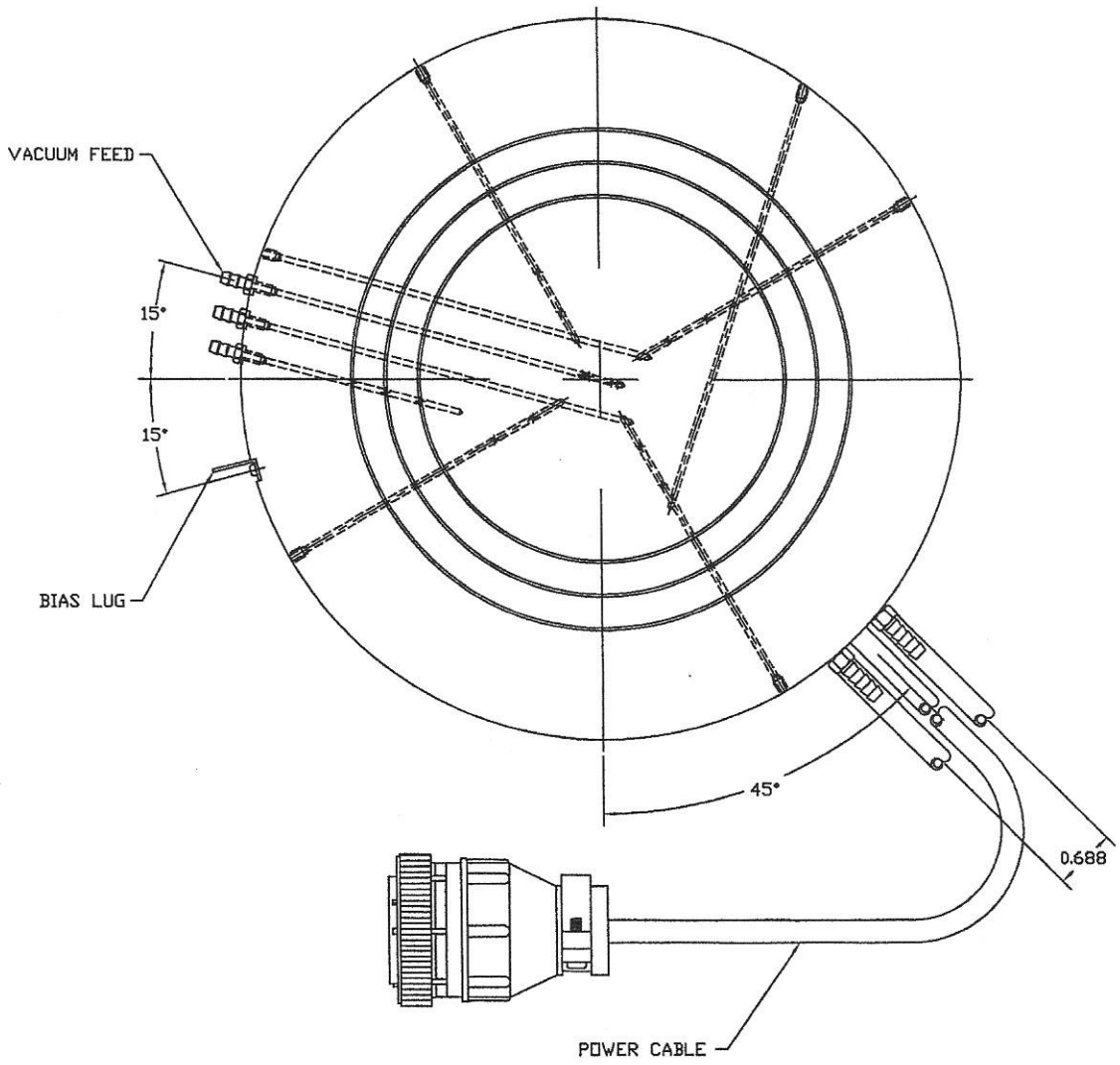
1. INTERPRET DRAWING PER DOD-STD-100.

GENERAL NOTES: (UNLESS OTHERWISE SPECIFIED)

10010	1	A

ALL	A	INITIAL RELEASE PER 10010A	05-25-94

A | .001



K SPECIFICATIONS

TP03010A	TP03010B
MBIENT TO 130°C	15°C TO 200°C
MBIENT TO 200°C	15°C TO 130°C
< 0.001" TIR UP TO 100°C	
< 0.002" TIR UP TO 200°C	
> 1 X 10^9 Ω @500 VDC	
<1000 pF	

1/32	.030 .010	1°	N/A
N/A			G.ESPINOLA 05-25-94
N/A			
			D.BUTCHER 05-25-94

CONFIG. CONTROL Ø8.0 CM

N/A	10010	A
		1 OF 2

TEMPTRONIC
an inTEST Company

CX0803A2SCMBG1

TEST DATA SHEET

History Revisions

Rev. #	Date	Revision Description	Author	Signature
A	3/6/02	Released	Gates	
B	7/16/02	Change Chuck p/n from CZ0803A2SCMBN1 to CX0803A2SCMBN1 module change	Butcher	
C	8/12/03	Added base flatness spec (SHT 4)	Butcher	

THIS TEST TO BE CONDUCTED BY TRAINED TECHNICIANS ONLY

ENGINEERING SIGNATURE REQUIRED WHERE TEST DATA IS OUTSIDE OF SPECIFIED LIMITS

THERMO-CHUCK INFORMATION

CUSTOMER: CMI

SALES ORDER #: 24356

THERMO-CHUCK PART NO: SA163040

THERMO-CHUCK SERIAL #: CHS12675T

CHUCK SURFACE CONFIGURATION N/A

TEMPERATURE RANGE (tested): -65 °C to +200 °C

TEST TECHNICIAN: Patrick Chin

DESIGN ENGINEER: Dana Butcher

DATE: 12-21-06

FINAL QUALITY INSPECTION: G. Cust.

ELECTRICAL VERIFICATION TESTS

ISOLATION TEST INSTRUMENT

MAKE AND MODEL #: **1864 MEGOHMMETER**

SERIAL #: **1864-9700-HW 3084**

CALIBRATION DATE: 08-08-06

CALIBRATION EXPIRATION DATE: 08-08-07

BASE TO SURFACE:	$= 200 \times 10^9 \Omega$	@ 500 VDC ($1x10^9 \Omega$@500VDC MIN)
MODULES (pin 7) TO BASE:	$= 100 \times 10^9 \Omega$	@ 500 VDC ($1x10^9 \Omega$@500VDC MIN)
MODULES (pin 7) TO SURFACE:	$= 200 \times 10^9 \Omega$	@ 500 VDC ($1x10^9 \Omega$@500VDC MIN)
RTD TO SURFACE:	$= 500 \times 10^9 \Omega$	@ 500 VDC ($1x10^9 \Omega$@500VDC MIN)

MULTIMETER TEST INSTRUMENT

MAKE AND MODEL #: **SIMPSON 260**

SERIAL #: TEMP97401

CALIBRATION DATE: 08-08-06

CALIBRATION EXPIRATION DATE: 08-08-07

MEASUREMENTS TAKEN AT CHUCK CABLE END

RTD RESISTANCE:	110 Ω	PINOUT: PIN # 2 TO PIN # 4 (110/90Ω)
RTD RESISTANCE:	110 Ω	PINOUT: PIN # 3 TO PIN # 5 (110/90Ω)
MODULE RESISTANCE:	3 Ω*	PINOUT: PIN # 7 TO PIN # 8

* Note this measurement is taken after entire chuck is at ambient with no power applied.
** Note verify modules are potted.

CAPACITANCE TEST INSTRUMENT

MAKE AND MODEL #: **830 AUTORANGE CAPACITANCE METER**

SERIAL #: **72-39163**

CALIBRATION DATE: 03-28-06

CALIBRATION EXPIRATION DATE: 03-28-07

MODULES (pin 7) TO SURFACE: = 828 pf (<950 pf)

BASE TO SURFACE: = 454 pf (<950 pf)

MECHANICAL VERIFICATION

MECHANICAL TEST INSTRUMENT

MAKE AND MODEL #: **STARRETT HGC 2018-16**

SERIAL #: **B-1311**

CALIBRATION DATE: 03-10-06

CALIBRATION EXPIRATION DATE: 03-10-07

AMBIENT CONDITIONS

AMBIENT TEMP. : 23.0 °C

AMBIENT HUMIDITY: 40 % RH

FLATNESS VERIFY

TIR @ AMBIENT: .0005

0.001" MAXIMUM

BASE FLAT. VERIFY

TIR @ AMBIENT: .00019

0.0004" MAXIMUM

PARALLELISM VERIFY

TIR @ AMBIENT: .00041

0.001" MAXIMUM

PLATING SPECIFICATION

(note: chuck model number must be verified for proper plating specification)

GOLD ☑

VACUUM VERIFICATION

VACUUM PORTS VERIFIED WITH PIN GAGE: ☑

VACUUM PORTS VERIFIED WITH AIR: ☑

THREE VACUUM PORT FITTINGS INSTALLED: ☑

*ALL VACUUM PORTS VERIFIED BY VACUUM TEST **

VACUUM PORT 1 READING: = 500 *MM HG* (≥ -450 mmHg)*

VACUUM PORT 2 READING: = 499 *MM HG* (≥ -450 mmHg)*

VACUUM PORT 3 READING: = 498 *MM HG* (≥ -450 mmHg)*

** Tested with wafer on surface, applied vacuum 500 mm hg, measured with manometer*

FUNCTIONAL VERIFICATION TESTS

VERIFY BASE COOLANT TUBE INSTALLED: ☑

VERIFY BASE COOLANT TUBE AIR PRESSURE TESTED: ☑

VERIFY COOLANT TUBES INSTALLED: ☑

VERIFY COOLANT TUBES TESTED WATER TIGHT: ☑

VERIFY ALIGNMENT OF COOLANT TUBES: ☑

VERIFY CHUCK EXTENSION CABLES TESTED AND PROPERLY CODED: ☑

SYSTEM FINAL QUALITY INSPECTION

CHUCK S/N ENGRAVED ON CABLE CONNECTOR:	☑
CHUCK S/N STAMPED ON HEATSINK:	☑
GROUND LUG INSTALLED & VERIFY ORIENTATION:	☑
ALL REQUIRED SET SCREWS INSTALLED:	☑
CHUCK BAND INSTALLED:	☑
CHUCK CABLE IS CLEAN:	☑
CHUCK SURFACE IS CLEAN:	☑
CHUCK COVER INSTALLED:	☑
COSMETIC APPEARANCE:	☑
VERIFY ALL P-LEVEL MATERIAL PRESENT AND LABELED:	☑
DESICCANT PACK PLACE IN CHUCK CONTAINER:	☑
SERVICE PACKAGE:	☑

COMMENTS :