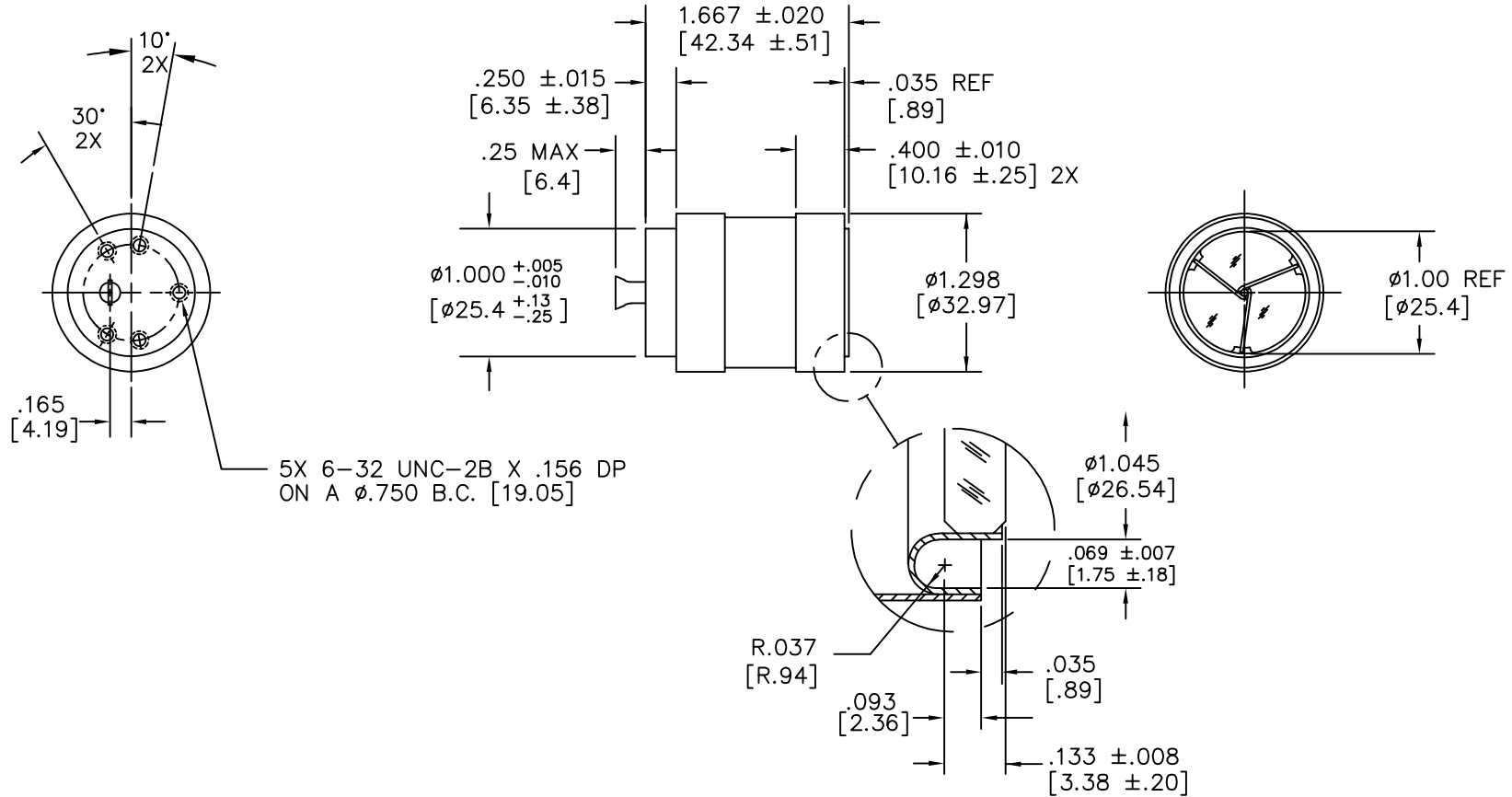


This document contains confidential and proprietary information of Excelitas Tech. The contents shall not be disclosed, reproduced, duplicated, disseminated or used for purposes other than authorized in writing by Excelitas Tech.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	REL/ECN 174956	02/19/16	M. IGUCHI
	B	REV/ECN 175387	02/08/17	K.TONG
	C	REV/ECN 30375	02/22/22	W. SURYAJAYA

NOTES:

1. THIS DRAWING APPLIES TO MODEL NUMBER: J2022
2. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS.



INTERFACE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS 1/64 ± .001 DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 1° SURFACE ROUGHNESS: 125 ✓	CONTRACT NO.		<b>EXCELITAS TECHNOLOGIES</b> 8 Tractor Road Singapore 627969	
	APPROVALS		DATE	
	DRAWN BY K. TAKADA		02/19/16	
	CHECKED N/A			
MATERIAL:	ENGR. M. IGUCHI	02/19/16		TITLE
FINISH:	PROJ. ENGR. M. IGUCHI	02/19/16		J2022 CERMEX XENON LAMP
	QA N/A	SIZE B	CAGE CODE 31573	DWG. NO. 233408
	M & P N/A	SCALE NONE	DO NOT SCALE DRAWING	SHEET 1 OF 2

**J2022**  
**300 Watt Cermax® Parabolic Lamp**



		Min	Nominal	Max	Comments
<b>1. Ignition Requirements</b>					
1.1	Peak Ignition Voltage at Lamp Terminals (kV)	23	-	35	Not to exceed 35kV for electrical safety
1.2	Ignition Pulse (@10%) at Lamp Terminals (ns)	75	100	150	
1.3	Recommended Boost Voltage at Lamp Terminals (Volts)	180	210	240	
1.4	Boost Current at Lamp Terminals (Amps)	-	-	66	
1.5	Boost Circuit RC discharge time (ms)	0.75	1.00	1.50	
1.6	Boost Energy (Joules)	1.75	2.3	2.75	
1.7	Recommended discharge energy in ignition transformer 0.1 to 0.2 Joules.				
1.8	Main DC power supply to deliver operating current within RC discharge time of boost circuit.				
1.9	Ignition requirements applicable throughout lamp life.				
<b>2. Electrical</b>					
2.1	Operating Power (Watts)	180	300	320	
2.2	Operating Current (Amps)	10.0	21.0	22.0	
2.3	Initial Lamp Voltage (Volts)	13.0	14.6	16.0	Voltage may change over lamp life
2.4	Ripple Current 0 - 1kHz (pk-pk %)	-	-	2	
<b>3. Typical Light Output / Performance at Nominal Rated Power (initial only unless otherwise specified)</b>					
3.1	Peak Intensity (Candelas)	-	5.2 x 10 <sup>5</sup>	-	
3.2	Radiant Output (Watts)	-	50	-	
3.3	UV Output < 390nm (Watts)	-	2.6	-	
3.4	IR Output > 770nm (Watts)	-	29	-	
3.5	Initial Total Visible Output 390 - 770nm when new (Lumens)	4100	4650	-	
3.6	Visible Output 390 - 770nm @ 500 hours (Lumens)	-	2325	-	
3.7	Color Temperature (Kelvin)	-	5900	-	May decrease 5-10% over lamp life
3.8	Beam Divergence when new - half angle @ 10% points (Degrees)	-	5	-	
3.9	Beam Divergence @560hrs - half angle @ 10% points (Degrees)	-	8	-	
3.10	Initial Focused Output with F/1 lens into 6mm aperture (Lumens)	-	3600	-	
3.11	Peak instabilities 0 - 100Hz, integrated light when new (%)	-	4	6	As per Excelitas test method and equipment
3.12	Peak instabilities 0 - 100Hz, integrated light @ 500 hours (%)	-	-	8	As per Excelitas test method and equipment
<b>4. Mechanical &amp; Environmental</b>					
4.1	Window Diameter (millimeters)	-	25.4	-	
4.2	Operating Temperature at appropriate measurement point (Celsius)	80	110	150	Max is at end of life
4.3	Storage Temperature (Celsius)	-40	-	85	
4.4	Ambient Starting Temperature (Celsius)	0	-	-	
4.5	Operating Humidity (% non-condensing)	-	-	85	
4.6	Weight (Grams)	-	132	-	
4.7	Recommended Environmental Operating Pressure (hPa)	700	1010	1050	hPa = hectopascals (Pascals x 100) = millibar
4.8	Operating Orientation (Degrees from horizontal)	-45	0	45	Window face down = -90 degree.
4.9	Optical components used with lamp or lamp module should not impede air flow, nor should they reflect radiated energy back towards the lamp.				
4.10	Air flow and air inlet temperature should always ensure lamp temperature is kept within specification throughout lamp life.				
4.11	EMI characteristics may vary with operating hours and power. Adequate system precautions should be taken.				
4.12	Additional EMI may result when operating outside the recommended power range.				
4.13	Non-operating Shock & Vibration per ISTA1A.				
4.14	RoHS Compliant.				
<b>5. Notes</b>					
5.1	Where no minimum or maximum value is specified, the value is nominal only and may vary.				
5.2	Excelitas Technologies assumes no responsibility for the suitability of this product for any particular application or any consequential damages associated with the use of this product.				
5.3	Specifications subject to change without notice.				