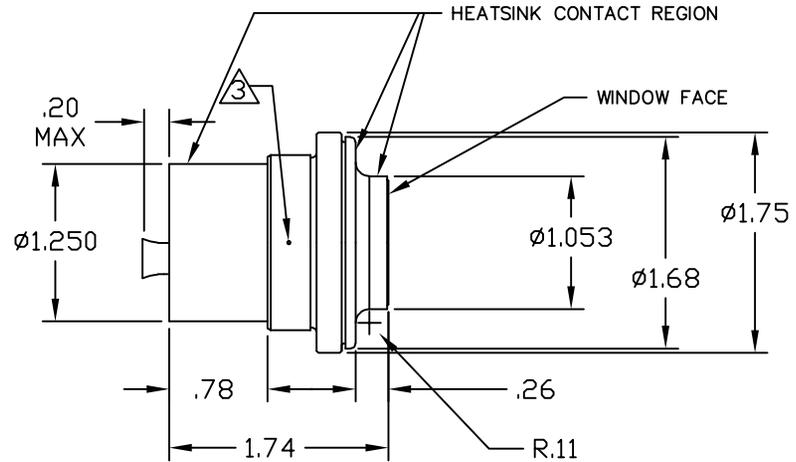
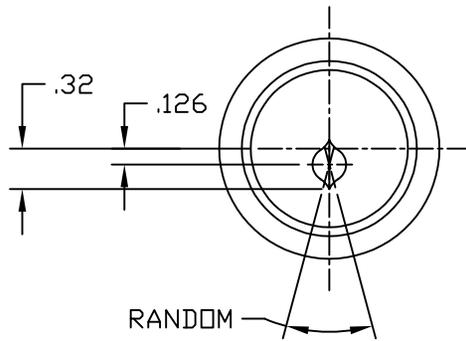


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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	REL/ECN 4370	09/06/17	K.TONG
	B	REV/ECN 30502	03/23/22	W.SURYAJAYA

NOTES:

1. THIS DRAWING APPLIES TO MODEL NUMBER: Y1964
  2. OPERATE LAMP WITH TIP-OFF @ 3 O'CLOCK POSITION WHEN VIEWED FROM REAR OF LAMP.
- △ TEMPERATURE MEASURED AT TOP-CENTER LOCATION OF THE METAL RING.



INTERFACE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES $\pm 1/64$ $.xx \pm .02$ $\pm 1'$ $.xxx \pm .005$	CONTRACT NO.		<b>EXCELITAS</b> 8 Tractor Road <b>TECHNOLOGIES</b> Singapore, 627969	
	APPROVALS		DATE	TITLE <b>Y1964</b> <b>CERMAX XENON LAMP</b>
	DRAWN BY	K. TONG	03/21/17	
	CHECKED	N/A	N/A	
ENGR.	K. TONG	03/21/17		
MATERIAL:	PROJ. ENGR.	N/A	N/A	SIZE    CAGE CODE    DWG. NO. <b>B</b> <b>31573</b> <b>233575</b>
FINISH:	QA	N/A	N/A	SCALE    DO NOT SCALE DRAWING    SHEET 1 OF 2 <b>1/1</b>
	M & P	N/A	N/A	REV. <b>B</b>

**Y1964**  
**300 Watt Cermax® Parabolic Lamp**



		Min	Nominal	Max	Comments
<b>1. Ignition Requirements</b>					
1.1	Peak Ignition Voltage at Lamp Terminals (kV)	23	-	36	Not to exceed 36kV for electrical safety
1.2	Ignition Pulse (@10%) at Lamp Terminals (ns)	60	75	150	
1.3	Recommended Boost Voltage at Lamp Terminals (Volts)	150	200	240	
1.4	Boost Current at Lamp Terminals (Amps)	-	-	66	
1.5	Boost Circuit RC discharge time (ms)	0.75	1.0	1.5	
1.6	Boost Energy (Joules)	1.5	2.0	2.5	
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)	275	300	325	
2.2	Operating Current (Amps)	17	21	23	
2.3	Initial Lamp Voltage (Volts)	12	13.5	15	Voltage may change over lamp life
2.4	Ripple Current 0 - 1kHz (pk-pk %)	-	-	2	
<b>3. Light Output / Performance at Nominal Power (initial only unless otherwise specified)</b>					
3.1	Peak Intensity (Candelas)	-	6.0 x 10 <sup>4</sup>	-	
3.2	Radiant Output (Watts)	-	75	-	
3.3	UV Output < 390nm (Watts)	-	4	-	
3.4	IR Output > 770nm (Watts)	-	37	-	
3.5	Initial Total Visible Output 390 - 770nm when new (Lumens)	-	5500	-	
3.6	Visible Output 390 - 770nm @ 1000 hours (Lumens)	-	2750	-	
3.7	Color Temperature (Kelvin)	-	5900	-	May decrease 5-10% over 500 hrs.
3.8	Beam Divergence when new - half angle @ 10% points (Degrees)	3.5	5	6.5	
3.9	Beam Divergence @100hrs - half angle @ 10% points (Degrees)	-	6	-	
3.10	Beam Divergence @1000hrs - half angle @ 10% points (Degrees)	-	7.5	-	
3.11	Initial Focused Output with F/1 lens into 6mm aperture (Lumens)	2500	-	-	
3.12	Peak instabilities 0 - 100Hz, integrated light when new (%)	-	4	6	As per Excelitas test method and equipment
3.13	Peak instabilities 0 - 100Hz, integrated light @ 1000 hours (%)	-	-	10	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)	-	208	-	
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	
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.				