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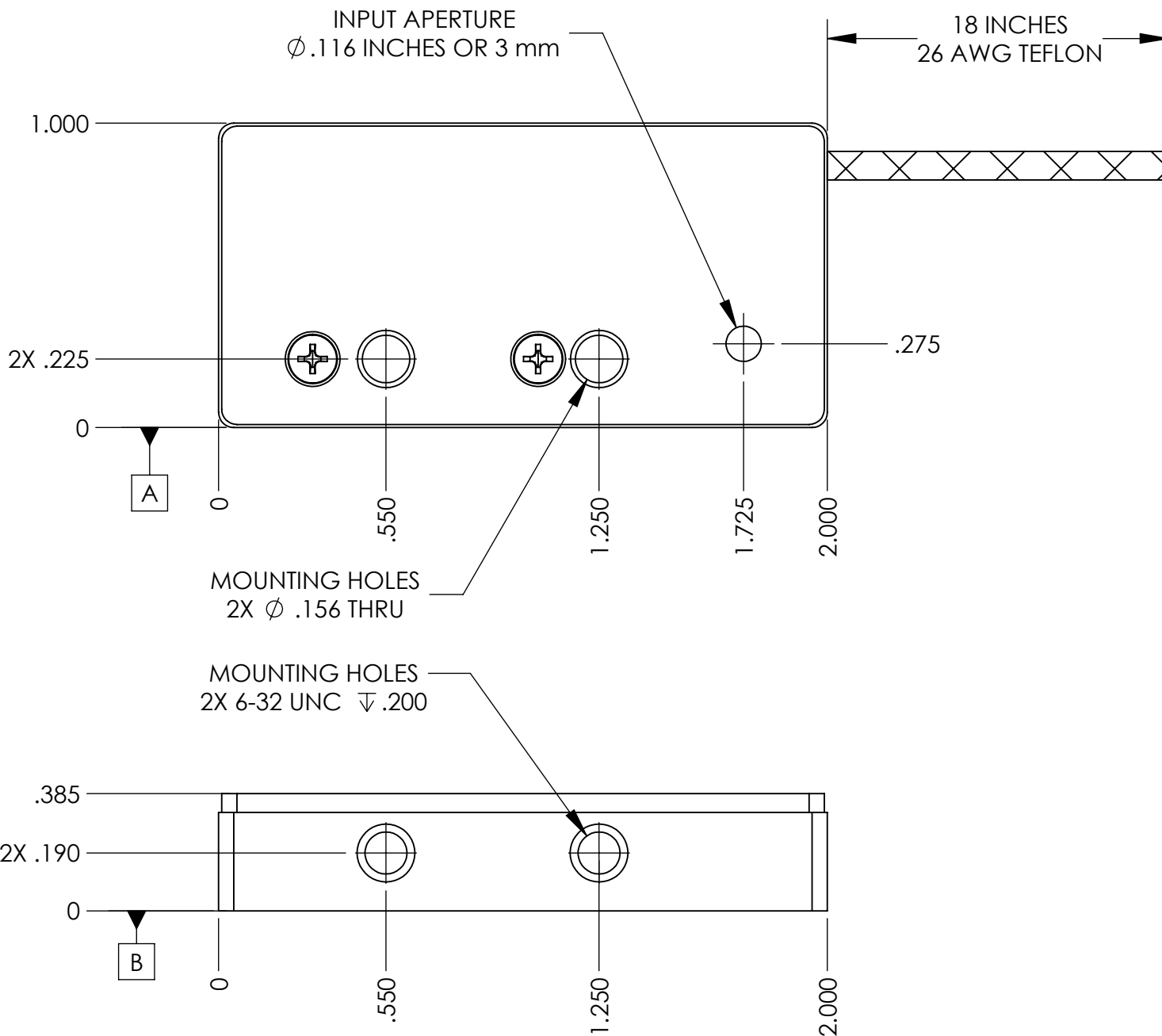
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NOTES (UNLESS OTHERWISE SPECIFIED):

- 1. ALL COMPONENTS AND MATERIALS OF THIS ASSEMBLY OR PART MUST BE CERTIFIABLY ROHS COMPLIANT.
- 2. 3D DATA BASE SHALL BE USED IN CORRELATION WITH THIS DRAWING FOR FEATURES NOT DIMENSIONED ON FACE OF THIS DRAWING.
- 3. ASEMBLE PER NMLASER MANUFACTURER INSTRUCTIONS ASSEMBLY PROCEDURES MANUAL.
- 4. **APPROVED FOR DIRECT DRIVE 5VDC AT 500mA RATING.**

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/13/2024	M.K.
B	MAX. POWER HANDLING TO 1 W	5/14/2026	M.K.



LST-5VDC SPECIFICATIONS	
OPTICAL SPECS.	
APERTURE SIZE	3.0 mm
TYPICAL BEAM DIAMETER	1.0 mm
MAX. POWER HANDLING	1 Watts (30 mJ/cm ²)
LASER DAMAGE THRESHOLD	30 mJ/cm ² @ 10 ns
ELECTRICAL SPECS.	
DIRECT DRIVE	5 V AT 500mA
NOMINAL MAGNETIC IMPEDANCE	10 Ohms
PERFORMANCE SPECS.	
OPEN DELAY TIME	3.0 ms
OPEN RISE TIME	2.0 ms
OPEN TOTAL TIME	5.0 ms
CLOSE DELAY TIME	1.5 ms
CLOSE FALL TIME	2.0 ms
CLOSE TOTAL TIME	3.5 ms
MIN. FWHM EXPOSURE	10 ms
MAX. REPETITION RATE	50 Hz (Continuous)
THERMAL SPECS.	
POWER DISSIPATION HOLDING OPEN	2.5 Watts
POWER DISSIPATION AT 50 HZ	1.2 Watts
Mounting Surface	Datum A or Datum B
CUSTOMIZATION AVAILABLE	
LARGER APERTURE	4.0 mm
DIRECT DRIVE	12 V AT 200 mA
Higher Power Handling	5 Watts (Gold/Aluminum Optics)
Higher Laser Damage Threshold	300 mJ/cm ² @ 10 ns
UNLESS OTHERWISE SPECIFIED:	NAME DATE
DIMENSIONS ARE IN INCHES	DRAWN M.K. 3/5/2021
TOLERANCES:	CHECKED
ANGULAR: $\pm 1^\circ$	ENG APPR.
ONE DECIMAL: X.X $\pm .1$	MFG APPR.
TWO DECIMAL: X.XX $\pm .015$	Q.A.
THREE DECIMAL: X.XXX $\pm .005$	3RD ANGLE PROJECTION
OVERALL FINISH:	
NICKEL PLATED	
MATERIAL:	
SEE BOM	
DO NOT SCALE DRAWING	
TITLE: SHUTTER, 5V DIRECT DRIVE	
SIZE B	DWG. NO. LST-5VDC
REV B	
SCALE: 1:1	SHEET 1 OF 2

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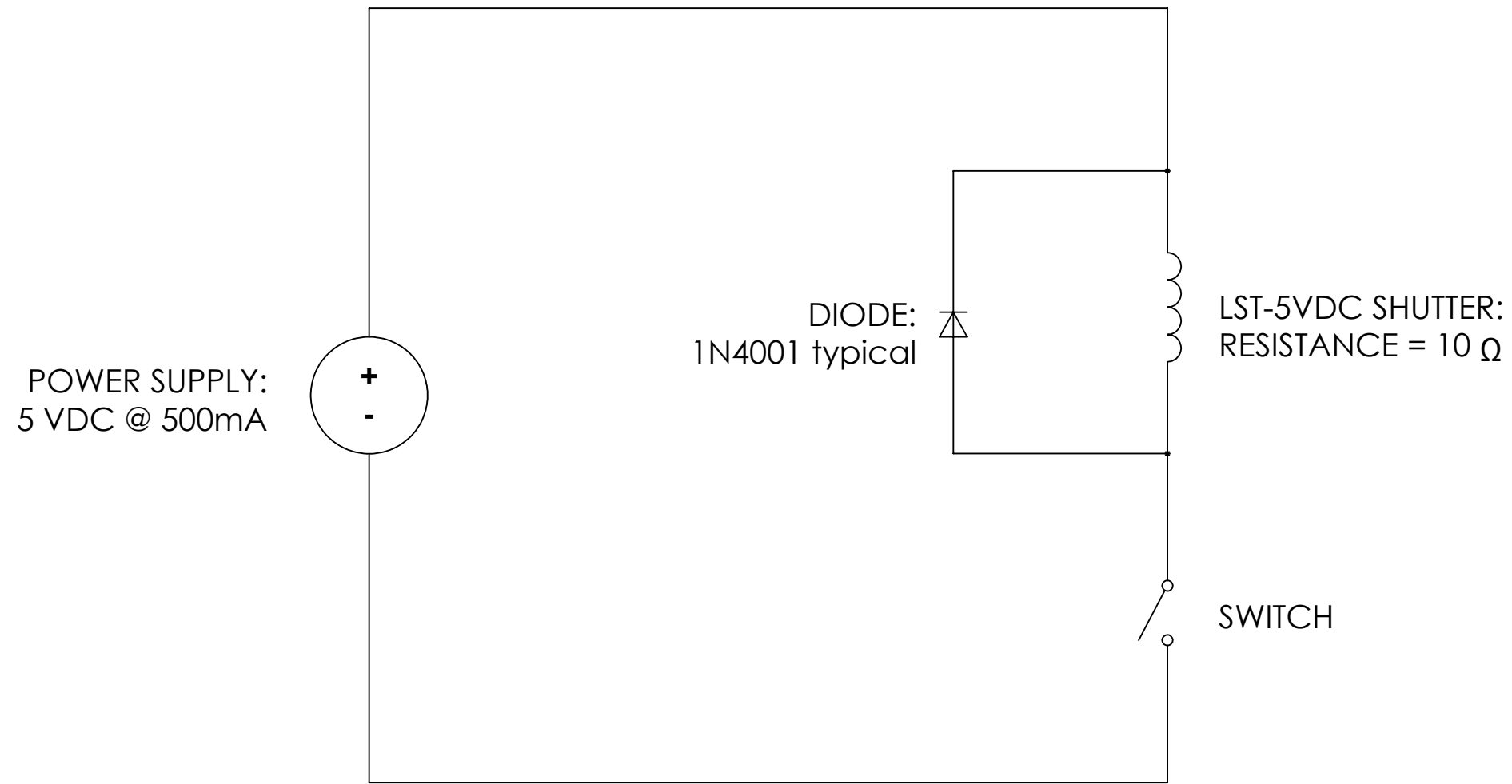
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SIMPLE 5V DIRECT DRIVE CIRCUIT:



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 ANGULAR: ±1°
 ONE DECIMAL: X.X ±.1
 TWO DECIMAL: X.XX ±.015
 THREE DECIMAL: X.XXX ±.005

OVERALL FINISH:
63Ra

MATERIAL:

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	M.K.	8/18/25
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

3RD ANGLE PROJECTION



TITLE:
Electrical Drive

SIZE	DWG. NO.	REV
B	LST-5VDC	B

SCALE: 1:1

SHEET 2 OF 2

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