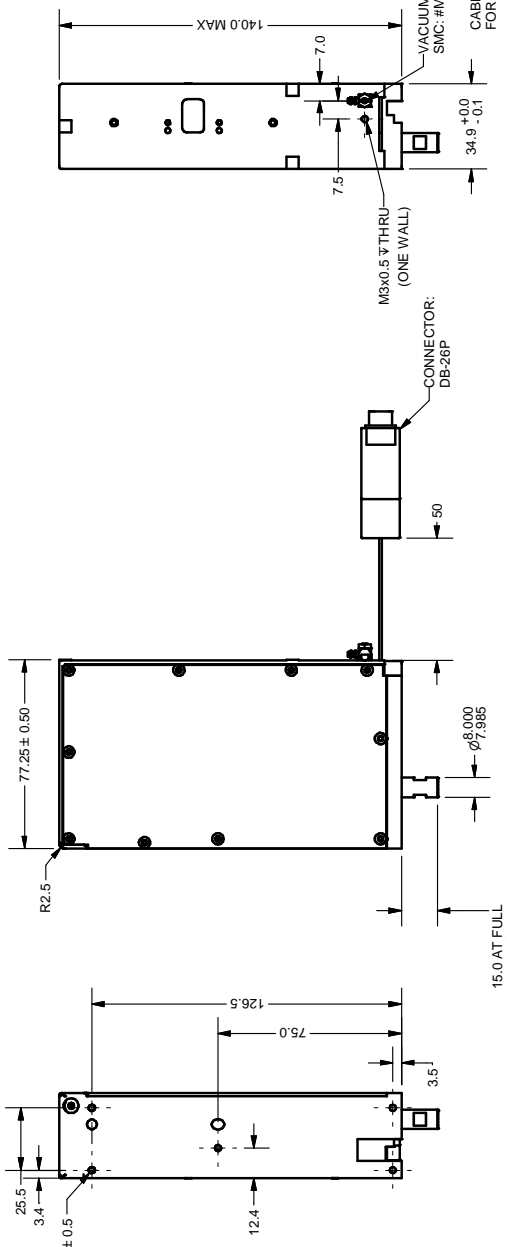


| REV | DATE | ECN | DESCRIPTION | APPROVED |
|-----|------|-----|-------------|----------|
| | | | | |

NOTES: (UNLESS OTHERWISE SPECIFIED)
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
 2. LINEAR SPECIFICATIONS:

- LINEAR STROKE: 17 +1/-0 mm
- FORCE CONSTANT: 10 N / A (24 VDC)
- PEAK FORCE: 14 N @ 1.35 A (24 VDC)
- COIL DC RESISTANCE: 15 OHMS ± 10%
- COIL INDUCTANCE: 17.6 mH ± 10%
- ENCODER RESOLUTION: 5.0um
- ENCODER ACCURACY: ± 5 COUNTS
- 3. THETA SPECIFICATION:
- ROTARY MOTOR: TRANSICOID DC BRUSHLESS (DIRECT DRIVE)
- PEAK TORQUE: 66 mNm @ 3 A
- TORQUE CONSTANT: 22 mNm / A
- SUPPLY VOLTAGE: 24 VDC ± 10%
- ENCODER SUPPLY VOLTAGE: 5 VDC
- ENCODER RESOLUTION: 0.018° (20K COUNTS / 360°)
- 4. MOVING MASS: 220 gm
- 5. TOTAL MASS: 840 gm
- 6. OPERATING TEMPERATURE: 5°C TO +40°C



| DB-26P PINOUT | |
|---------------|----------------|
| 1 | (L) ENCODER A+ |
| 2 | (L) ENCODER B+ |
| 3 | (L) INDEX Z+ |
| 4 | NC |
| 5 | (L) COIL+ |
| 6 | NC |
| 7 | (R) ENCODER B+ |
| 8 | (R) ENCODER A+ |
| 9 | (R) INDEX I+ |
| 10 | (L) ENCODER A- |
| 11 | (L) ENCODER B- |
| 12 | (L) INDEX Z- |
| 13 | NC |
| 14 | NC |
| 15 | NC |
| 16 | (R) ENCODER B- |
| 17 | (R) ENCODER A- |
| 18 | (R) INDEX I- |
| 19 | +5 VDC |
| 20 | 15V RTN |
| 21 | (R) MOTOR U |
| 22 | (L) COIL+ |
| 23 | (L) COIL- |
| 24 | (L) COIL- |
| 25 | (R) MOTOR V |
| 26 | (R) MOTOR W |

SIGNATURE NEEDED FOR ORDER APPROVAL
 SIGN: _____ DATE: _____
 APPROVAL NOT RECEIVED WITHIN
 48 HOURS MAY AFFECT DELIVERY

APPROVAL

SMAC

| | | | |
|-----------------|--|---------------|------------------|
| MATERIAL: | 6061 T6 ALUMINUM | REF. NUMBER: | LAR31-027-5 |
| TOLERANCES ARE: | X. ± 0.50 X.X ± 0.1 X.XX ± 0.05 X.XXX ± 0.1 | DESIGNED BY: | N. ITAKURA |
| ANGULARITY: | ± 0.1° | CHECKED BY: | |
| CONCENTRIC: | ± 0.01 | DATE: | 5/10/2007 |
| ROUNDNESS: | ± 0.05 | DRAWN BY: | N. ITAKURA |
| EDGE BREAK: | 0.02 MAX | DATE: | 6/14/2007 |
| CHAMFER: | 0.03 MAX | APPROVED BY: | |
| FILE NAME: | LAR31-017-5OUTLINE.idw | PART NAME: | LAR31-017-55-CVS |
| SPEC. NUMBER: | | SCALE: | 1:2 |
| | | DWG SIZE: | B |
| | | SHEET NUMBER: | 1 OF 1 |
| | | REVISION: | P4 |

