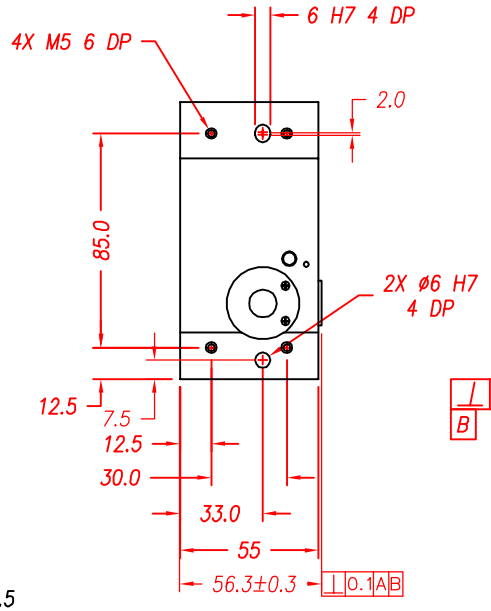
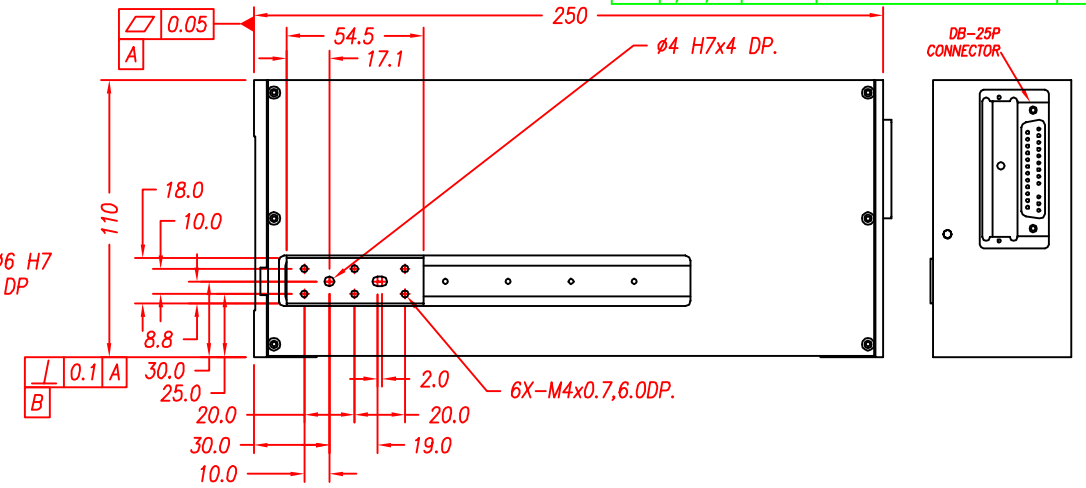
NOTES: (UNLESS OTHERWISE SPECIFIED)

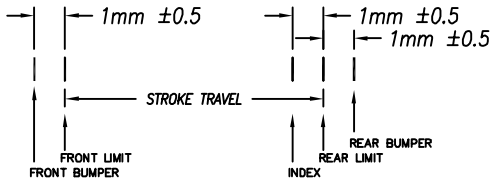
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. LINEAR SPECIFICATION:
   - LINEAR STROKE: 100.0 +1.0/−0 mm
   - FORCE CONSTANT: 17 N/AMP
   - PEAK FORCE: 25 N @ 1.8 AMPS (48 VDC)
   - CONTINUOUS FORCE: 17.0 N @ 1.0 AMPS (48 VDC)
   - COIL DC RESISTANCE: 25 OHMS @ 22°C
   - COIL INDUCTANCE: 6.8 mH @ 1 kHz
   - ENCODER RESOLUTION: 0.5, 1, 5 MICROMETER (NC)
   - ENCODER ACCURACY: ±4 Counts
3. MOVING MASS: 250 GRAMS
4. TOTAL MASS: 3700 GRAMS
5. OPERATING TEMPERATURE: −10°C TO +65°C

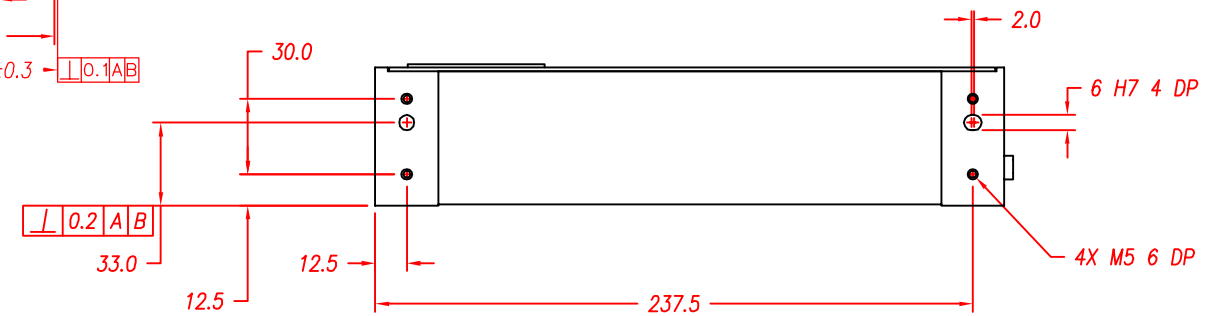
SIGNATURE NEEDED FOR ORDER APPROVAL
SIGN _____ DATE _____
APPROVAL NOT RECEIVED WITHIN
48 HOURS MAY AFFECT DELIVERY

REVISIONS				
REV	DATE	ECN	DESCRIPTION	APP
B	2/7/03	2603	SEE ECN	SMH
C	4/9/03	2773	SEE ECN	SMH
D	7/01/03	2744	SEE ECN	GK
E	1/21/16	5688	PART NUMBER CHANGE	SB









DB−25P PINOUT

1	+5VDC	14	LINEAR PHASE A+
2	+5V RETURN	15	NO CONNECTION
3	NO CONNECTION	16	LINEAR PHASE B+
4	LINEAR PHASE A−	17	NO CONNECTION
5	NC	18	LINEAR INDEX +
6	LIMIT RETURN	19	COIL −
7	COIL +	20	COIL −
8	COIL +	21	NO CONNECTION
9	LINEAR PHASE B−	22	NO CONNECTION
10	NO CONNECTION	23	LINEAR INDEX −
11	LIMIT +	24	NO CONNECTION
12	LIMIT −	25	NO CONNECTION
13	NO CONNECTION		

TOLERANCES ARE:
X. ± 0.50
X.X ± 0.1
X.XX ± 0.05
X.XXX ±
ANGULARITY ± 0.1°
CONCENTRIC ± 0.01
ROUNDNESS ± 0.05
EDGE BREAK 0.2 MAX
CHAMFER 0.2 MAX

FILE NAME: LAS55−100−7

MATERIAL: ALUMINUM 6061−T6
HEAT TREAT: / RC / DEEP
MACHINE FINISH: 1.6 EXCEPT NOTED.
PROTECTIVE FINISH: ELECTROLESS NICKEL
SPEC. NUMBER:

SMAC

REF. NUMBER: LAS55−100−7

DESIGNED BY:	DATE:	CHECKED BY:	DATE:	CONTRACT:
TOAN VU	09/09/02			STD
DRAWN BY: S. HOOYMAN	DATE: 04/09/03	APPROVED BY:	DATE:	

PART NAME: LAS55−100−7X−1
SHEET NUMBER: 1 OF 1

SCALE:	DWG SIZE:	PART NUMBER:	REVISION:
NONE	B	LAS55−100−7X−1	E

DO NOT SCALE DWG