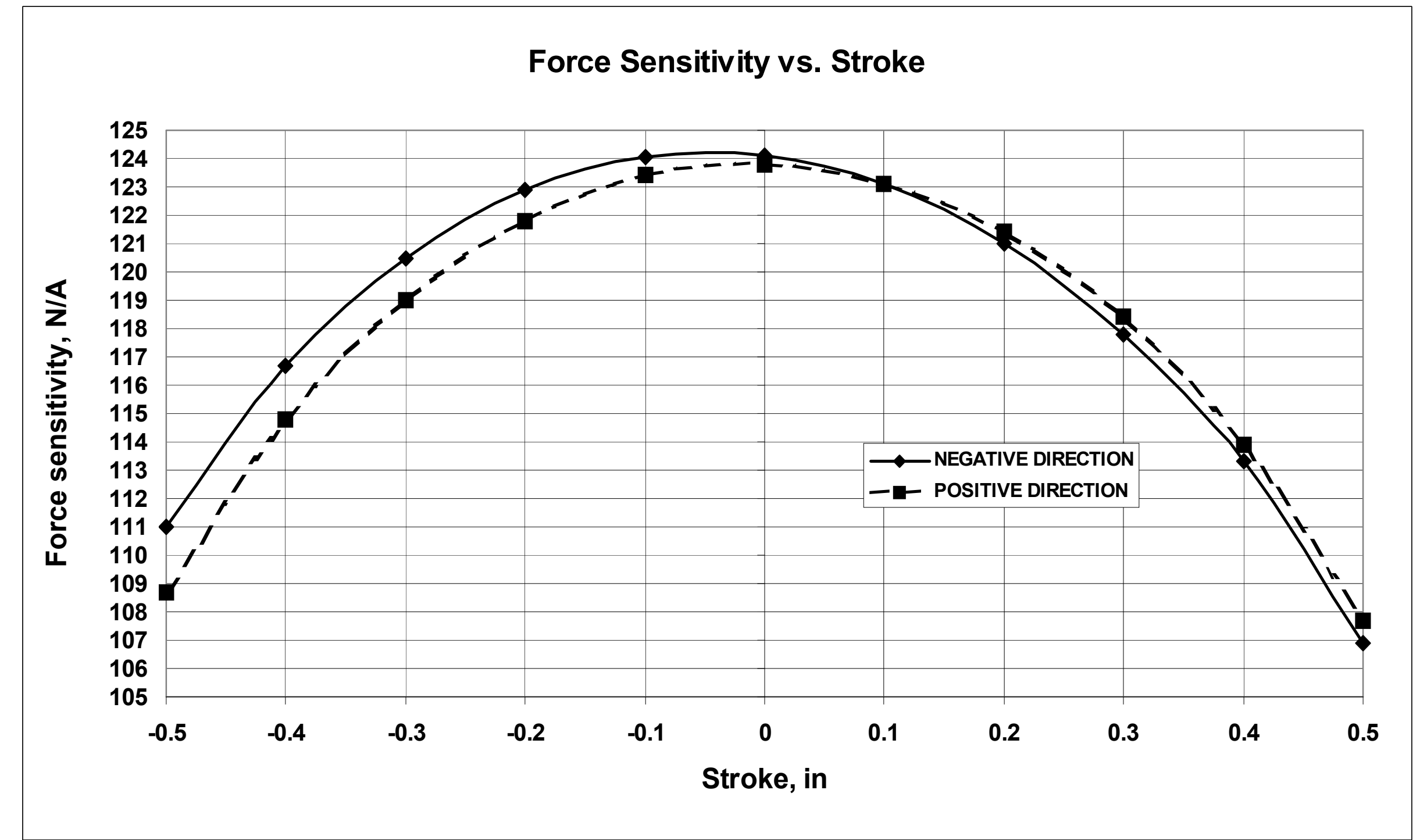
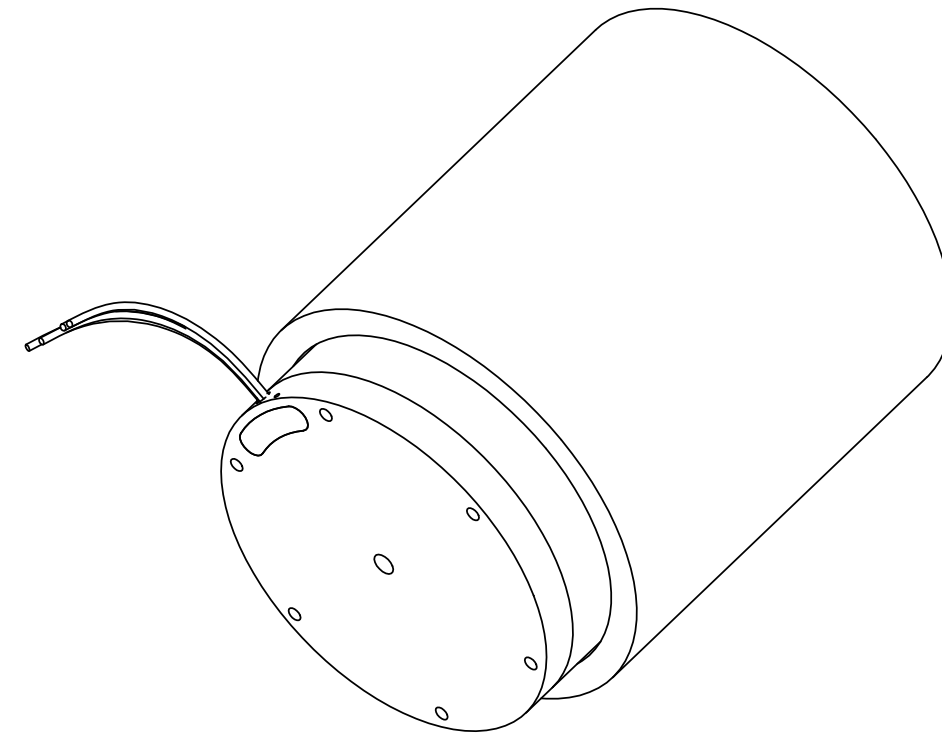


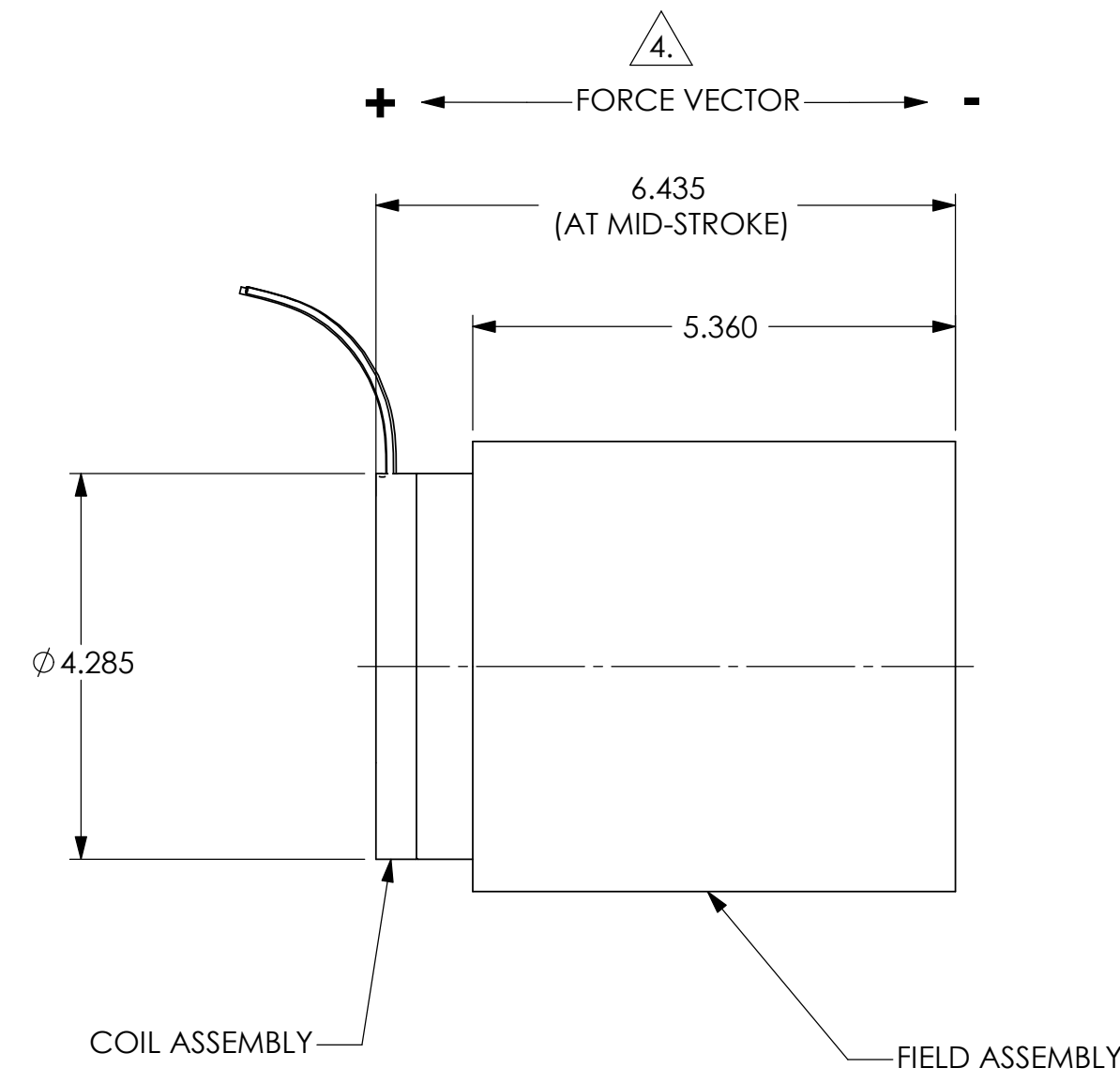
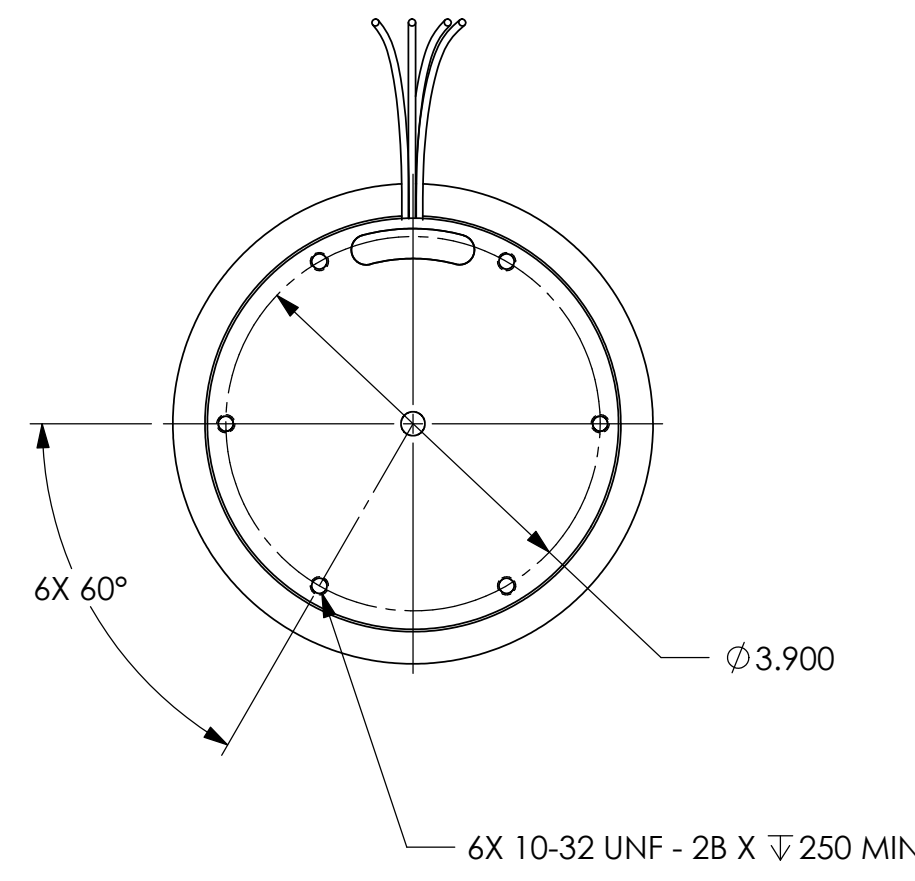
LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
A	042801	PRODUCTION RELEASE	RG	SH	07/23/04
B	044019	UPDATE PARAMETERS	RG	MG	10/01/04

Winding Constants *	Units	Tol	Symbol	Wdg	Z
DC Resistance	Ohms	± 12.5%	R	4.6	
Voltage @ F _P	Volts	Nominal	V _P	36.8	
Current @ F _P	Amps	Nominal	I _P	8.07	
Force Sensitivity	N/Amp	± 10%	K _F	124.1	
	LB/Amp	± 10%		27.9	
Back EMF Constant	V/(m/sec)	± 10%	K _B	124.1	
	V/(ft/sec)	± 10%		37.8	
Inductance ****	milli-Henry	± 15%	L	5.3	

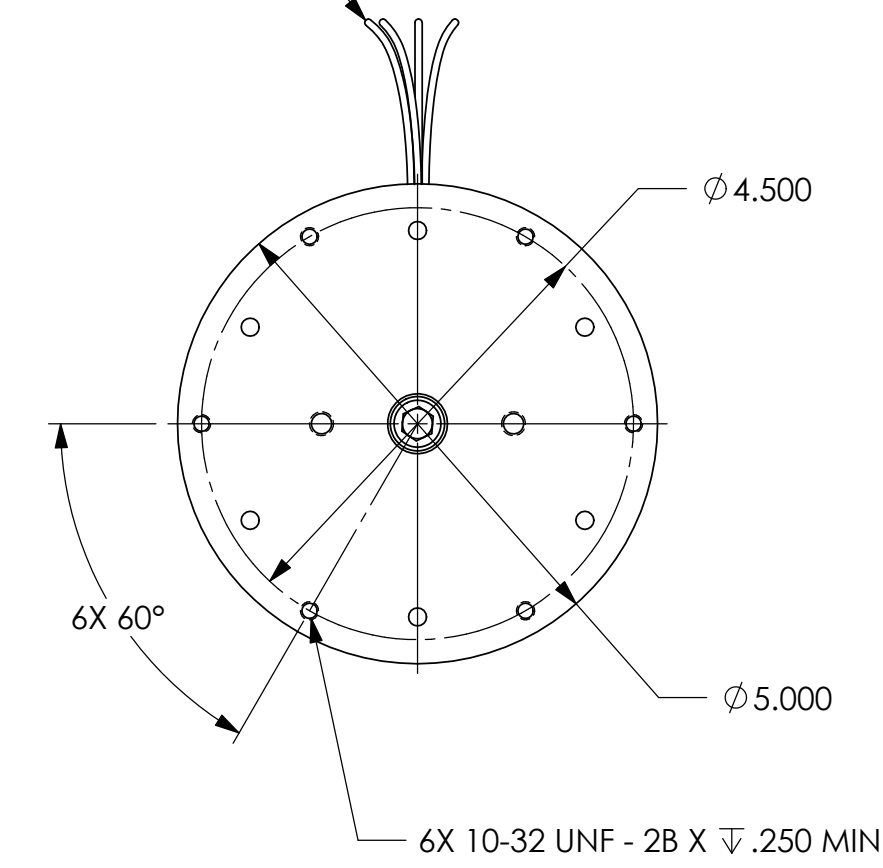
Linear Actuator Parameters *	Units	Symbol	Value
Peak Force **	N	F _P	1000
	LB		225
Continuous Stall Force ***	N	F _{CS}	473
	LB		106.3
Actuator Constant	N/√Watt	K _M	57.9
	LB/√Watt		13
Electrical Time Constant	millisecond	τ _E	1.15
Mechanical Time Constant	millisecond	τ _M	0.43
Power I ² R @ F _P	Watts	P _P	300
Stroke: BI-Directional	± mm		12.7
	± in		0.5
Clearance on Each side of Coil	mm		0.51
	in		0.02
Thermal Resistance of Coil	°C/Watt	θ _{TH}	1.2 (EST)
Maximum Allowable Coil Winding Temp	°C	Temp	155
Weight of Coil Assembly	KG	WT _C	1.45
	LB		3.2
Weight of Field Assembly	KG	WT _T	11
	LB		24.3



* AT MID-STROKE & 25°C TEMPERATURE
 ** 10 SEC @ 25°C AMBIENT & 155°C WINDING TEMPERATURE
 *** AT 25°C AMBIENT & 155°C COIL TEMPERATURE
 **** MEASURED AT 1000 Hz.



LEAD WIRE: COONER AS-999
 #22 AWG
 12.0" LONG MIN EACH
 4 PLACES PARALLEL LEADS
 2 LEADS MARKED WITH
 BLACK SHRINK TUBING



4. A POSITIVE (+) VOLTAGE APPLIED TO THE MARKED LEADS WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

- ALL ABBREVIATIONS IAW MIL-STD-12.
- INTERPRET DRAWING IAW MIL-STD-100.
- INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
 -ALL DIMENSIONS ARE IN INCHES
 -BREAK SHARP EDGES .015 MAX
 -SURFACE ROUGHNESS 125
 -DIMENSIONS APPLY AFTER FINISH
 -MAX FILLET R.010

TOLERANCES:

DECIMALS	ANGULAR
.X ±.03	±0°30'
.XX ±.01	
.XXX ±.005	

DO NOT SCALE DRAWING

U.S. PATENT NO. 5,345,206

BEI KIMCO MAGNETICS DIVISION
SAN MARCOS, CA 92069

DRAWN	DATE	TITLE		
R. GUERRERO	03/18/04	LINEAR ACTUATOR		
CHECK	03/19/04			
J. THOMPSON				
APPD	03/19/04	SIZE		
M. GODKIN		D		
FILE NO.	L:\TOP\LEVEL\LA\LA50-65-001Z	FSCM NO.	DWG NO.	REV
		55789	LA50-65-001Z	B
		SCALE	1/1	SHEET
				1 OF 1