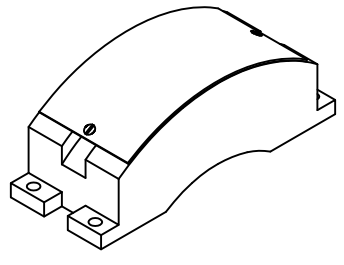


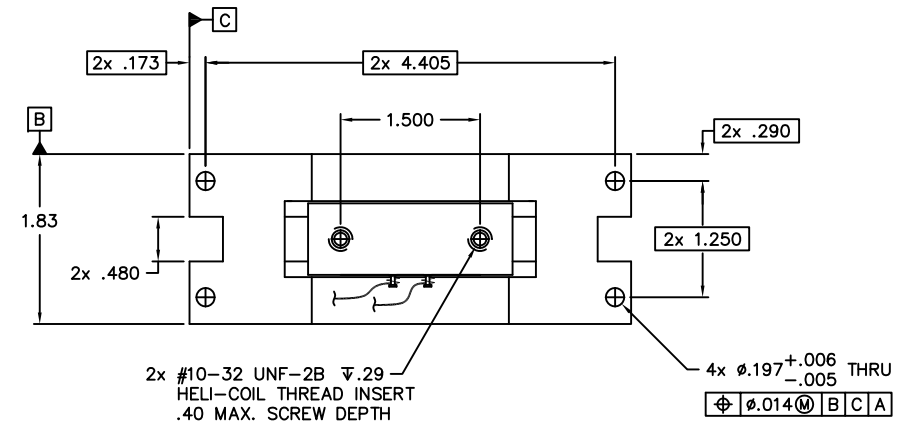
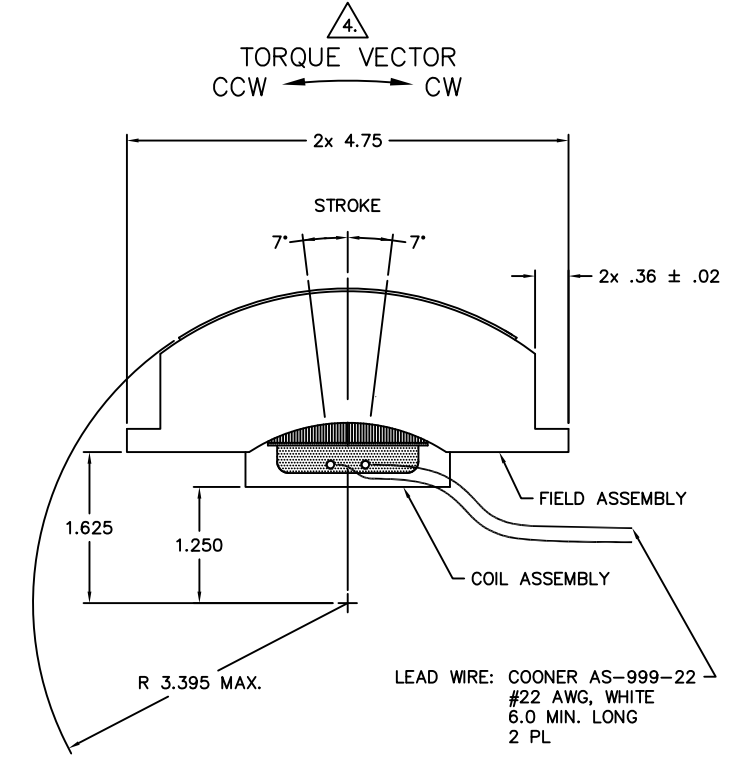
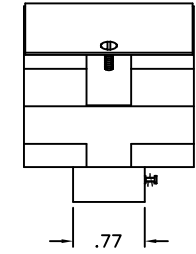
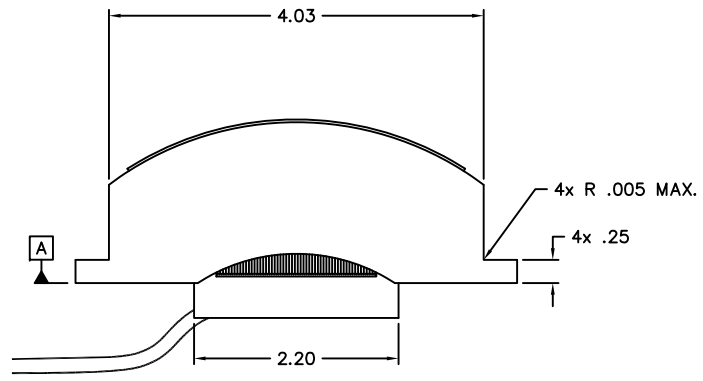
LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
B	130244	ADDED RoHS COMPLIANCY LOGO	RG	MG	08/08/13
C	140145	UPDATE NOTE #4	SLM	MG	05/23/14

WINDING CONSTANTS *	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±12.5%	R	5.5
VOLTAGE @ T _p	VOLTS	NOMINAL	V _c	44.0
CURRENT @ T _p	AMPERES	NOMINAL	I _c	8.0
TORQUE SENSITIVITY (AT MID STROKE)	OZ-IN/AMP	±10%	K _T	125
BACK EMF CONSTANT	VOLTS/RAD/SEC	±10%	K _B	0.88
INDUCTANCE ****	MILLI-HENRY	±30%	L	15.0

ROTARY ACTUATOR PARAMETERS *	UNITS	SYM	VALUE
PEAK TORQUE **	OZ-IN	T _p	1000
CONTINUOUS STALL TORQUE ***	OZ-IN	T _{cs}	250
ACTUATOR CONSTANT	OZ-IN/√WATT	K _A	53.3
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ _E	2700
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	3.5
POWER I ² R @ T _p	WATTS	P _p	352
STROKE (ANGULAR)	± DEGREES		7.0
COIL CLEARANCE	IN		0.015
THERMAL RESISTANCE OF COIL	°C/WATT	θ _{th}	4.0
MAX ALLOWABLE TEMP OF COIL	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT _c	4.0
TOTAL WEIGHT	OZ	WT _t	39.5



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



US PATENT NO.
5,677,963

4. A POSITIVE (+) VOLTAGE APPLIED TO MARKED (SHRINK TUBING) LEAD WIRE WILL PRODUCE A TORQUE ON THE COIL ASSEMBLY IN THE CCW DIRECTION WHEN VIEWED FROM THE LEAD WIRE SIDE.
- 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 UNITS
 -BREAK SHARP EDGES .015 MAX.
 -SURFACE ROUGHNESS √63
 -DIMENSIONS APPLY AFTER FINISH
 -MAX FILLET R: FILLET

TOLERANCES:
 DECIMALS: .X ± .03
 .XX ± .01
 .XXX ± .005
 DO NOT SCALE DRAWING

BEI KIMCO MAGNETICS DIVISION
VISTA, CA 92081

DRAWN R. ELLIOTT	DATE 5/24/00	TITLE ROTARY ACTUATOR
MECH CHECK PHIL STAHL	DATE 2/17/05	
APPD M. GODKIN	DATE 5/26/00	

SIZE D	FSCM NO. 55789	DWG NO. RA68-19-000A	REV C
FILE NO. L:\TOP LEVEL\RA\...	SCALE 1/1	SHEET 1 OF 1	

RA68-19-000A C