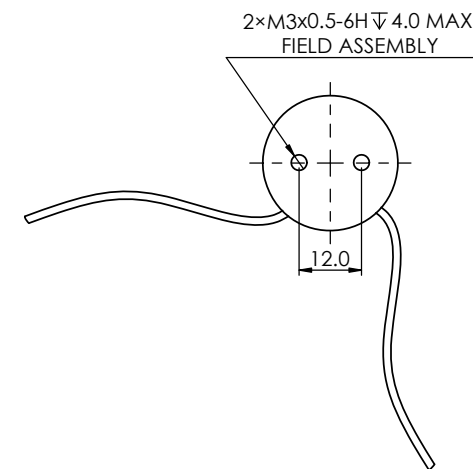
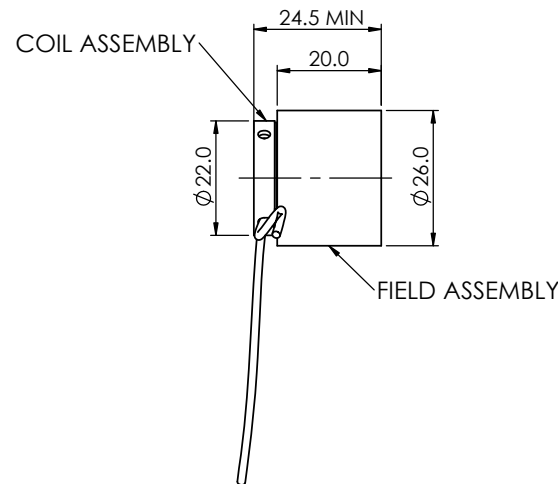
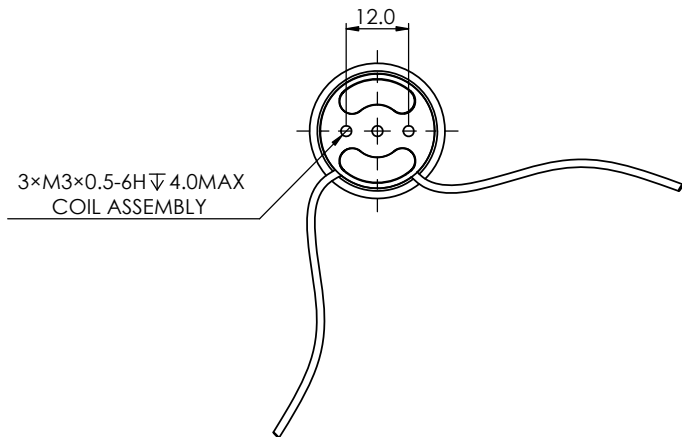
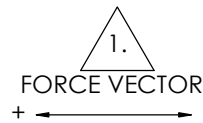
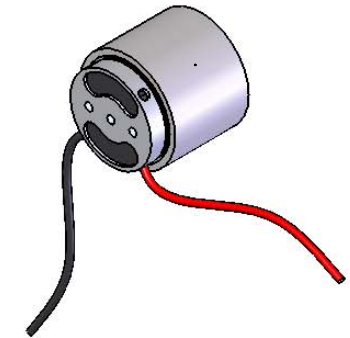


WINDING CONSTANT	TOL	SYM	UNITS	VALUE
DC RESISTANCE	± 10%	R	OHMS	9.6
VOLTAGE @ Fp	NOMINAL	Vp	VOLTS	24.1
CURRENT @ Fp	NOMINAL	Ip	AMPS	2.5
FORCE SENSITIVITY	± 10%	Kf	N / A	5.4
BACK EMF CONSTANT	NOMINAL	Kb	V/M/Sec	5.4
INDUCTANCE	± 30%	L	mH	2.1
ACTUATOR PARAMETER				
PEAK FORCE *		Fp	N	13.5
CONTINUOUS FORCE **		Fc	N	4.5
ACTUATOR CONSTANT		Ka	N/A	1.7
ELECT TIME CONSTANT		Te	milli-sec	0.22
POWER I2R@Fp		Pp	W	60
TOTAL STROKE		S	mm	7
CLEARANCE ON SIDE OF COIL		CL	mm	0.5
THERMAL RESISTANCE ***		qth	C / W	23
MAX WINDING TEMP		Tmax	C	155
WEIGHT OF COIL ASSEMBLY		WTc	g	14
WEIGHT OF FIELD ASSEMBLY		WTf	g	58
WEIGHT OF ACTUATOR		WTa	g	72

* 10 sec @ 25C ambient, 155C coil temp.
 ** 25C ambient, 155C coil temp.
 *** In free air.

REV	ECO.NO	DESCRIPTION	DRN	APP'D	Q.A.	DATE
X1	---	INITIAL RELEASE	LHM	SGM		2010/6/20



3.LEAD WIRE LENGTH ARE 300MM MIN.
 2.INSULATION RESISANCE:100 MEGOHMS MINIMUM AT 500 VDC.
 ▲A POSITIVE(+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN POSITIVE (+) DIRECTION.
 NOTES:UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Tongmao Electronics
DIMENSIONS ARE IN MM		DRAWN	LHM 2010-6-18	
TOLERANCES:		CHECKED		TITLE:
ANGULAR: MACH ±0° 30'		ENG APPR.	SGM 2010-6-18	
ONE PLACE DECIMAL ±0.25		MFG APPR.		SIZE
TWO PLACE DECIMAL ±0.1		Q.A.		DWG. NO.
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:		B TMEC0013-007-000
ANSI Y14.5M-1982.				REV
				X1
DO NOT SCALE DRAWING				SCALE: 1: 1
				SHEET 1 OF 1