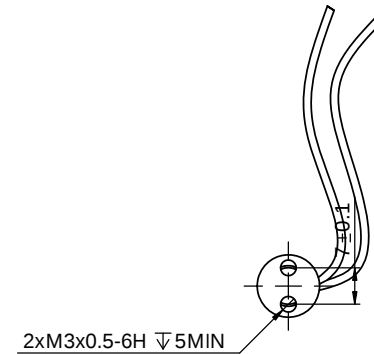
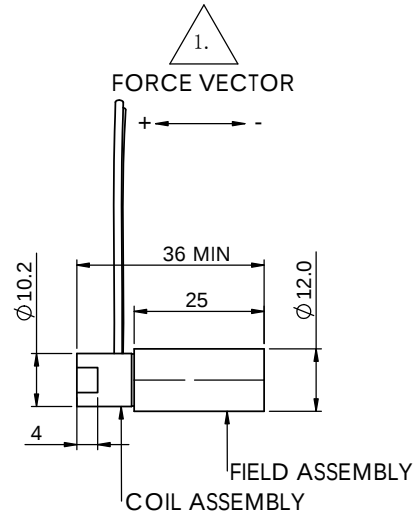
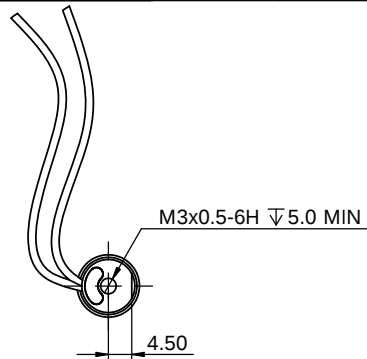
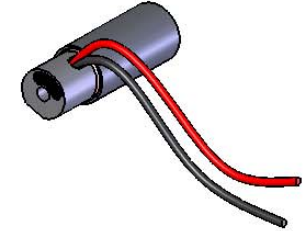


WINDING CONSTANT	TOL	SYM	UNITS	VALUE	*
DC RESISTANCE	± 10%	R	OHMS	3.4	**
VOLTAGE @ Fp	NOMINAL	Vp	VOLTS	3.7	***
CURRENT @ Fp	NOMINAL	Ip	AMPS	1.1	
FORCE SENSITIVITY	± 10%	Kf	N / A	0.6	
BACK EMF CONSTANT	NOMINAL	Kb	V/M/Sec	0.6	
INDUCTANCE	± 30%	L	mH	0.16	
ACTUATOR PARAMETER					
ACTUATOR PARAMETER		SYM	UNITS	VALUE	
PEAK FORCE *		Fp	N	0.65	
CONTINUOUS FORCE **		Fc	N	0.25	
ACTUATOR CONSTANT		Ka	N/√w	0.33	
ELECT TIME CONSTANT		Te	milli-sec	0.05	
POWER I2R@Fp		Pp	W	3.9	
TOTAL STROKE		S	mm	3.0	
CLEARANCE ON SIDE OF COIL		CL	mm	0.4	
THERMAL RESISTANCE ***		qth	C / W	170	
MAX WINDING TEMP		Tmax	C	155	
WEIGHT OF COIL ASSEMBLY		WTc	g	5	
WEIGHT OF FIELD ASSEMBLY		WTf	g	13	
WEIGHT OF ACTUATOR		WTa	g	18	

1 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		2016/5/20

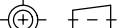


3.LEAD WIRE LENGTH ARE 300MM MIN.

2.INSULATION RESISANCE:100 MEGOHMS MINIMUM AT 500 VDC.

1.A POSITIVE(+)VOLTAGE APPLIED TO RED LEAD WILL PRODUCE A FORCE
ON THE COIL ASSEMBLY IN POSITIVE (+) DIRECTION.

NOTES:UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TM motion Tongmao Electronics 		
DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: MACH±0° 30' ONE PLACE DECIMAL ±0.25 TWO PLACE DECIMAL ±0.1	DRAWN	LHM	2016-5-17	TITLE: VOICE COIL ACTUATOR		
	CHECKED					
	ENG APPR.	SGM	2016-5-17			
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M-1982.	Q.A.					
	COMMENTS:			SIZE B	DWG. NO. TMEC0001-003-000	REV X1
	DO NOT SCALE DRAWING					
			SCALE: 1: 1		SHEET 1 OF 1	