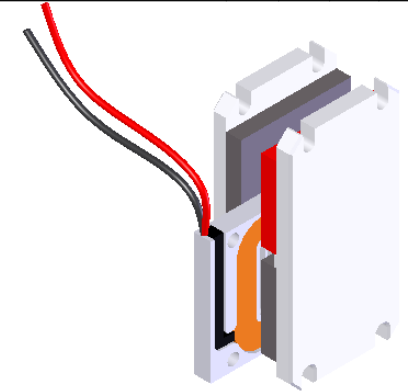


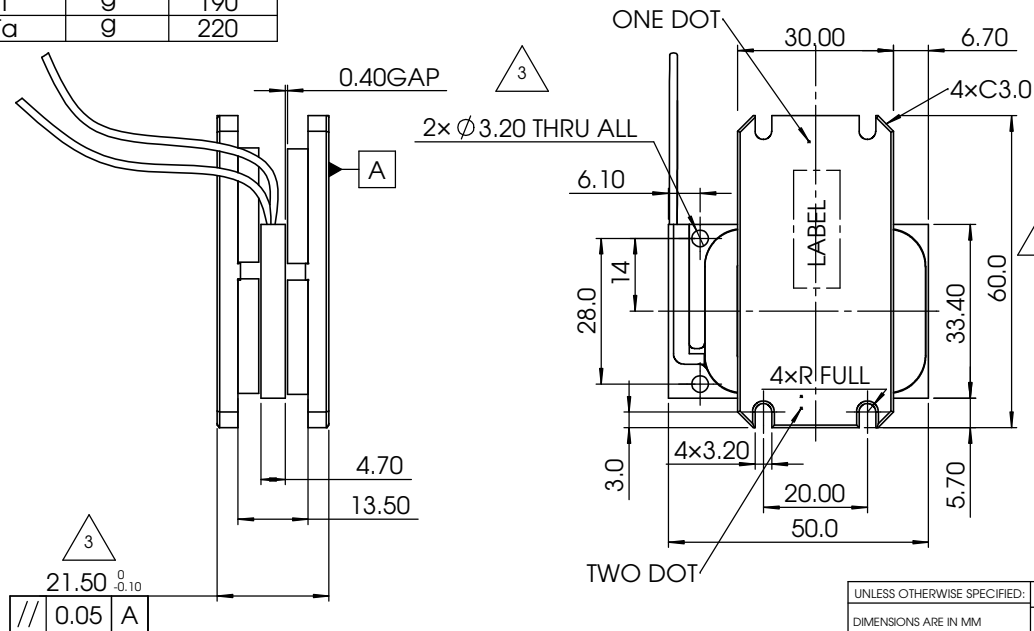
WINDING CONSTANT	TOL	SYM	UNITS	VALUE
DC RESISTANCE@150C	± 10%	R	OHMS	3.7
VOLTAGE @ Fp	NOMINAL	Vp	VOLTS	18.9
CURRENT @ Fp	NOMINAL	Ip	AMPS	5.1
FORCE SENSITIVITY	± 10%	Kf	N / A	3.9
BACK EMF CONSTANT	NOMINAL	Kb	V/M/Sec	3.9
INDUCTANCE	± 30%	L	mH	0.6
ACTUATOR PARAMETER		SYM	UNITS	VALUE
PEAK FORCE *		Fp	N	20
CONTINUOUS FORCE * *		Fc	N	5.2
ACTUATOR CONSTANT		Ka	N/√w	2.1
ELECT TIME CONSTANT		Te	milli-sec	0.16
POWER I ² R@Fp		Pp	W	97.3
TOTAL STROKE		S	mm	15.0
CLEARANCE ON SIDE OF COIL		CL	mm	0.4
THERMAL RESISTANCE * * *		θth	C / W	16.5
MAX WINDING TEMP		Tmax	C	155
WEIGHT OF COIL ASSEMBLY		WTc	g	30
WEIGHT OF FIELD ASSEMBLY		WTf	g	190
WEIGHT OF ACTUATOR		WTa	g	220

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		2015-3-28



Shown At Bottom of Stroke



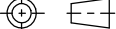
4.LEAD WIRE LENGTH ARE 300MM MIN.

△CUSTOMER ASSEMBLY DIMENSION

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 TOLERANCES: ANGULAR: MACH±0° 30 ' ONE PLACE DECIMAL ±0.25 TWO PLACE DECIMAL ±0.1		DRAWN		LHM		2015-1-16	
		CHECKED					
		ENG APPR.		SGM		2015-1-16	
		MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M-1982. 		Q.A.				TITLE: VOICE COIL ACTUATOR	
		COMMENTS:					
DO NOT SCALE DRAWING		SIZE		DWG. NO.		REV	
		A4		TMEP0020-015-00A		X1	
		SCALE: 1: 1				SHEET 1 OF 1	