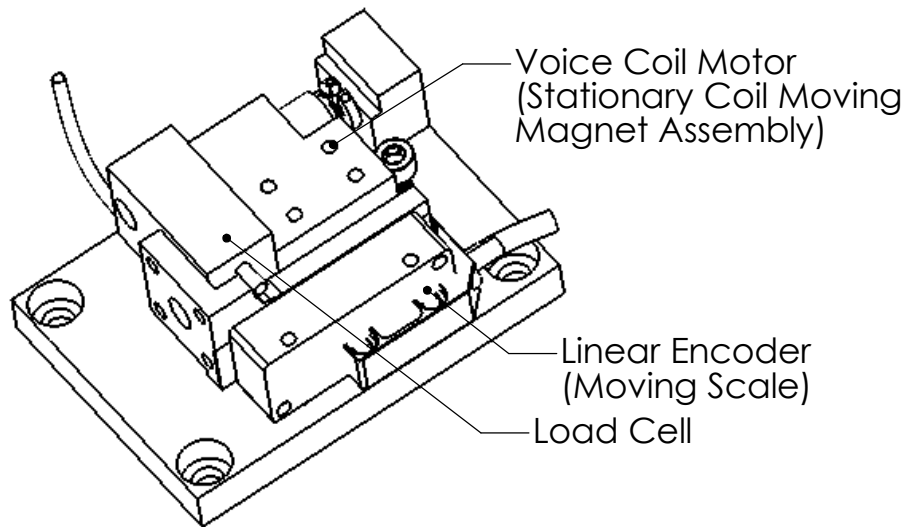
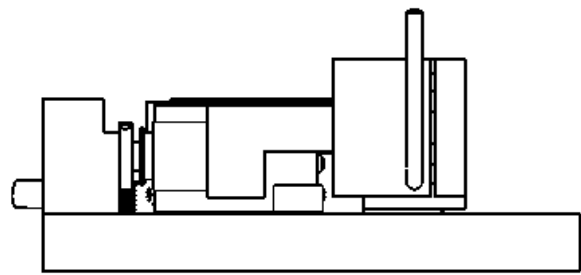
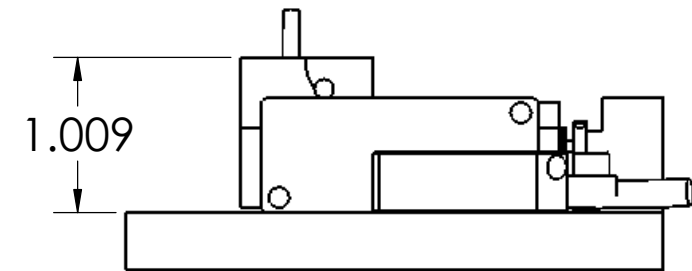
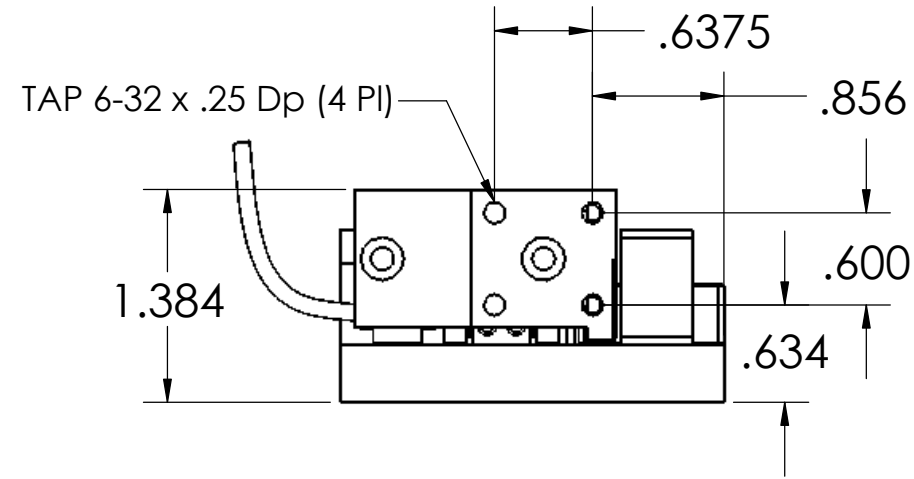
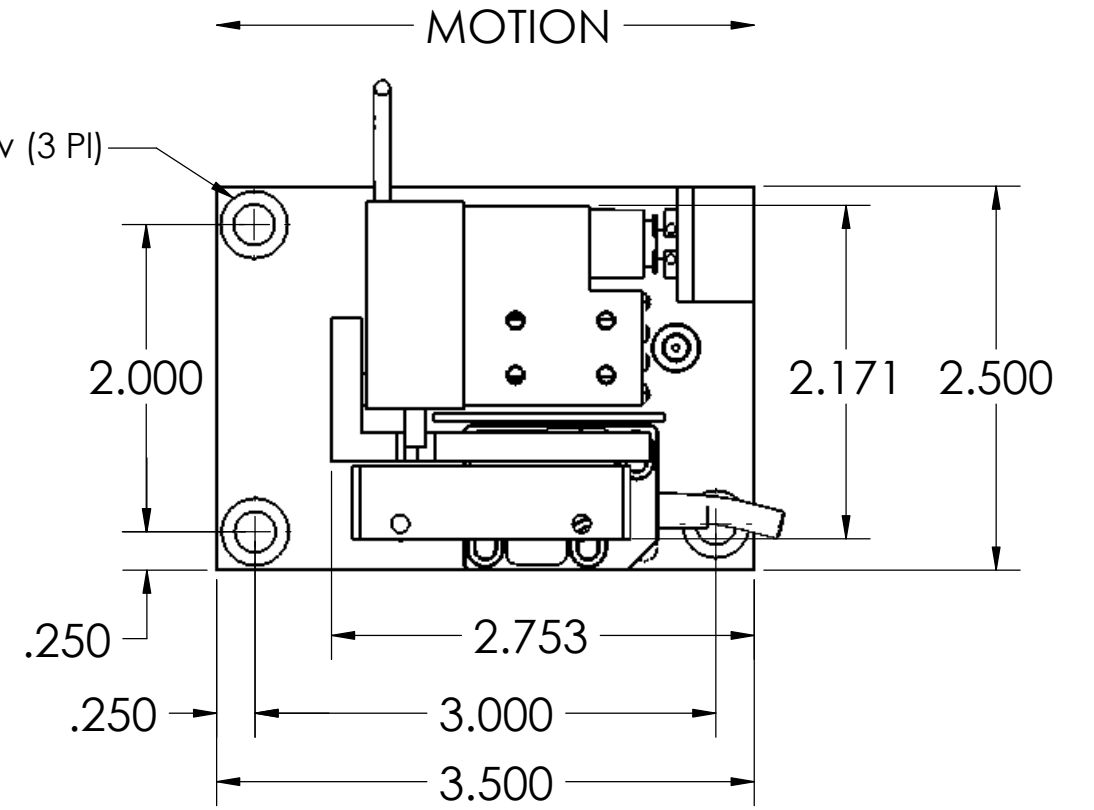


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UNLESS SPECIFIED OTHERWISE: All dimensions are in inches Standard Tolerances are as follows .XXX ±.005 ANGLES ±1° .XX ±.010 FILLETS AND .X ±.020 CORNERS .010 Remove All Burrs and Sharp Edges				MATERIAL		TITLE	
FINISH				DRAWN OOG		DATE 12-13-04	
APPROVED MPW				DATE 12-13-04		DWG # 30-0370	
				REV A		SHEET 1 of 2	

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Voice Coil Positioning Stage
Model #: VCS01-001-CR-001-F

MOVING COIL NON-COMM ACTUATOR SPECIFICATIONS		
Motor P/N	NCC01-04-001-1X	
Stroke	0.125"	3.2 mm
Encoder Resolution	0.1 micron	
Load Cell Resolution	0.1 - 500 gram	
Bearing Type	Crossed Roller	
Moving Mass	0.166 lbs	75 grams
Total Mass	.662 lbs	300 grams
Resistance @ 20C	1.5 ohms	
Inductance @ 20C	63 μ H	
Electrical Time Constant	42 μ sec	
Motor Constant	0.08 LBS/SQRT(Watt)	0.36 N/SQRT(Watt)
Force Constant	0.10 LBS/Amp	0.45 N/Amp
Back EMF	0.01 V/ips	0.45 V/m/sec
Continuous Force	0.06 LBS	0.27 N
Max Power @ 100% Duty	0.6 Watts	
Peak Force	0.18 LBS	0.80 N
Max Power @ 10% Duty	5.1 Watts	