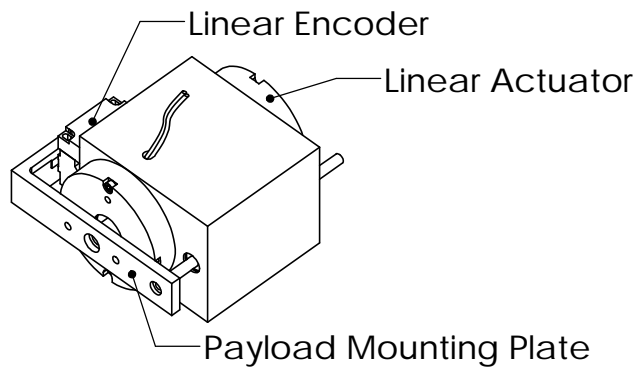
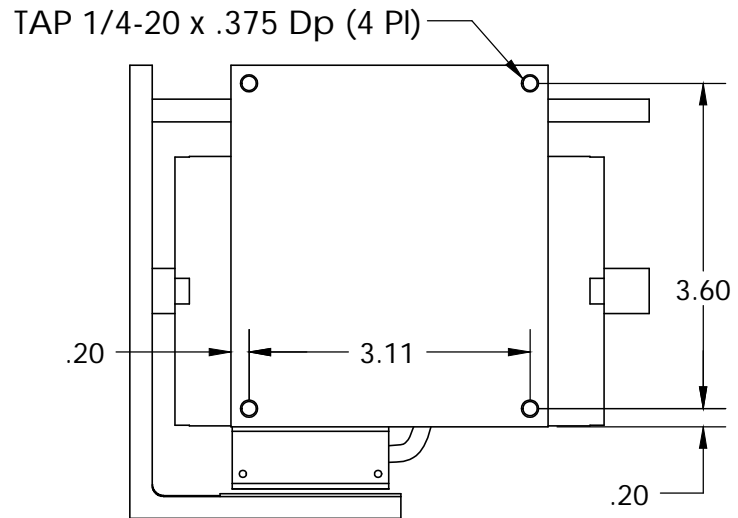
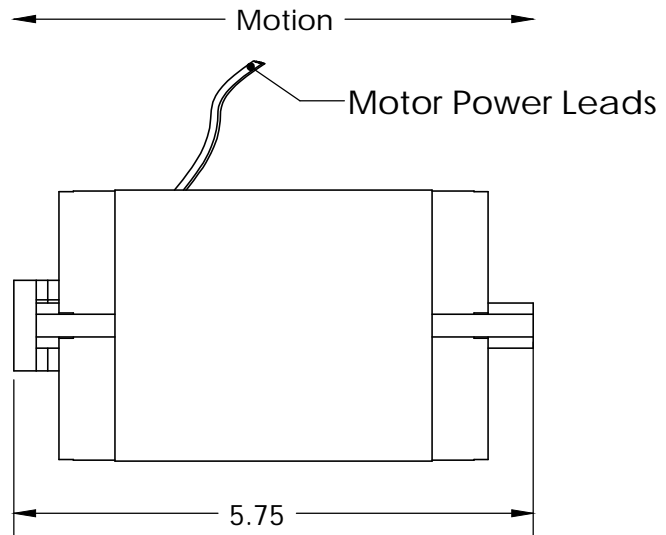
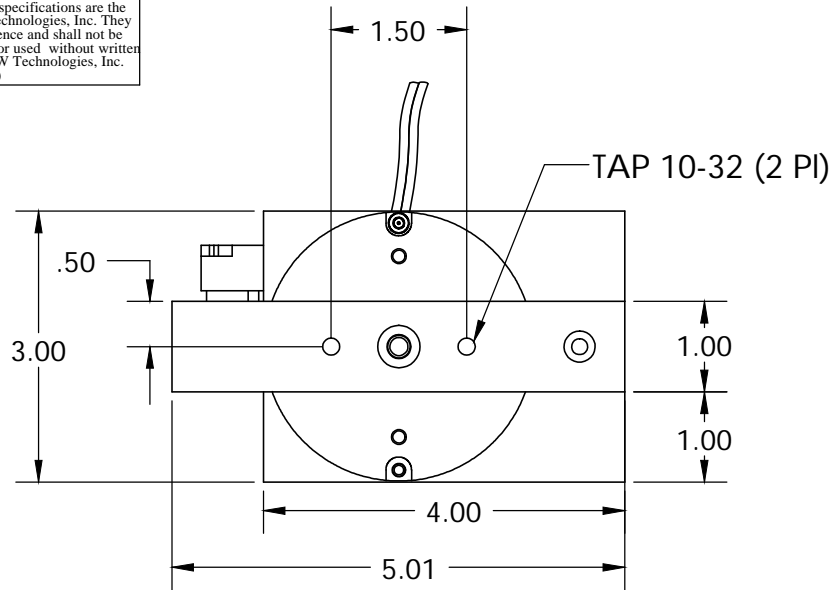


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UNLESS SPECIFIED OTHERWISE: All dimensions are in inches Standard Tolerances are as follows: .XXX ±.005 ANGLES ±1° .XX ±.010 FILLETS .010 .X ±.020 CORNERS .010 Remove All Burrs and Sharp Edges				MATERIAL		TITLE	
FINISH				DRAWN		Voice Coil Positioning Stage Model #VMS05-180-RB-001	
DRAWN	DATE	APPROVED	DATE	DWG #	REV	SHEET	
OOG	5-8-07	MPW	5-8-07	31-0035	C	1 of 2	

MOVING COIL NON-COMM ACTUATOR SPECIFICATIONS		
Motor P/N	NCM05-28-180-2LB	
Stroke	0.50"	12.7 mm
Encoder Resolution	0.1 micron	
Bearing Type	Roller Bushing	
Moving Mass	1.84 lbs	832 grams
Total Mass	5.82 lbs	2631 grams
Resistance @ 20C	10.2 ohms	
Inductance @ 20C	5.1 mH	
Electrical Time Constant	0.50 msec	
Motor Constant	2.71 LBS/SQRT(Watt)	12.1 N/SQRT(Watt)
Force Constant	8.7 LBS/Amp	38.6 N/Amp
Back EMF	1.0 V/ips	38.6 V/m/sec
Continuous Force	18 LBS	80 N
Max Power @ 100% Duty	44 Watts	
Peak Force	54 LBS	240 N
Max Power @ 10% Duty	397 Watts	

TITLE		
Voice Coil Positioning Stage Model #VMS05-180-RB-001		
DWG #	REV	SHEET
31-0035	C	2 of 2