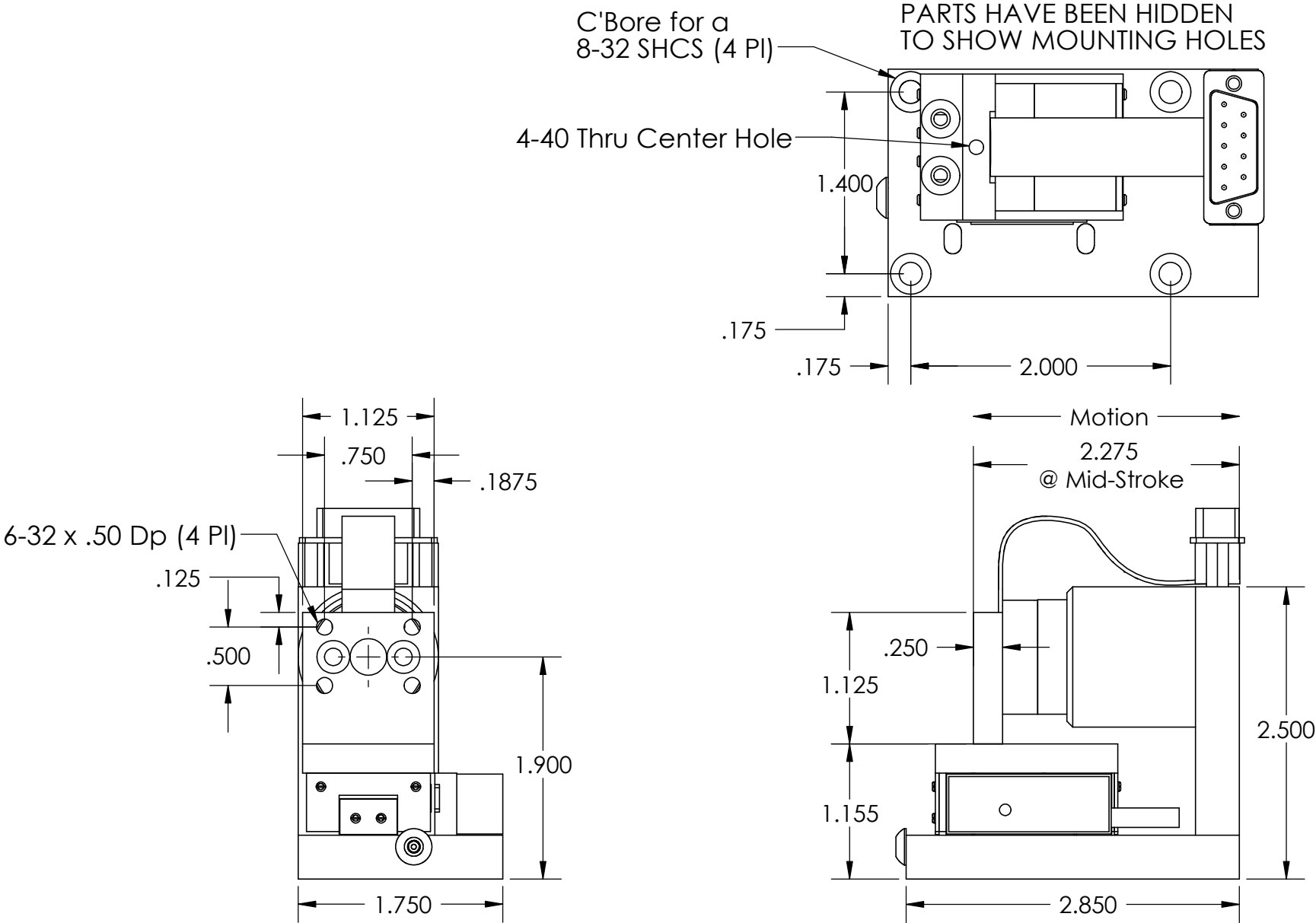


These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc. (www.h2wtech.com)

REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	4-11-15



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 Voice Coil Positioning Stage Model #VCS05-011-CR-001-CH		
	FINISH						
	DRAWN OOG	DATE 4-11-15	APPROVED MPW	DATE 4-11-15	DWG # 31-0720	REV ---	SHEET 1 of 1

VOICE COIL POSITIONING STAGE SPECIFICATIONS		
Motor P/N	NCC05-11-011-1X	
Stroke	0.50"	12.07 mm
Encoder Resolution	0.1 micron	
Encoder Type	Optical	
Bearing Type	Crossed Roller	
Moving Part	Coil Assembly	
Moving Mass	0.20 lbs	90 grams
Total Mass	0.80 lbs	360 grams
Resistance @ 20C	3.0 ohms	
Inductance @ 20C	1.0 mH	
Electrical Time Constant	0.33 msec	
Motor Constant	0.67 LBS/SQRT(Watt)	2.98 N/SQRT(Watt)
Force Constant	1.2 lbs/Amp	5.2 N/Amp
Back EMF	0.13 V/ips	5.2 V/m/sec
Force @ 100% Duty	1.1 lbs	4.9 N
Power @ 100% Duty	3 watts	
Current @ 100% Duty	1.0 Amps	
Force @ 10% Duty	3.3 lbs	14.7 N
Power @ 10% Duty	24 watts	
Current @ 10% Duty	2.8 Amps	

