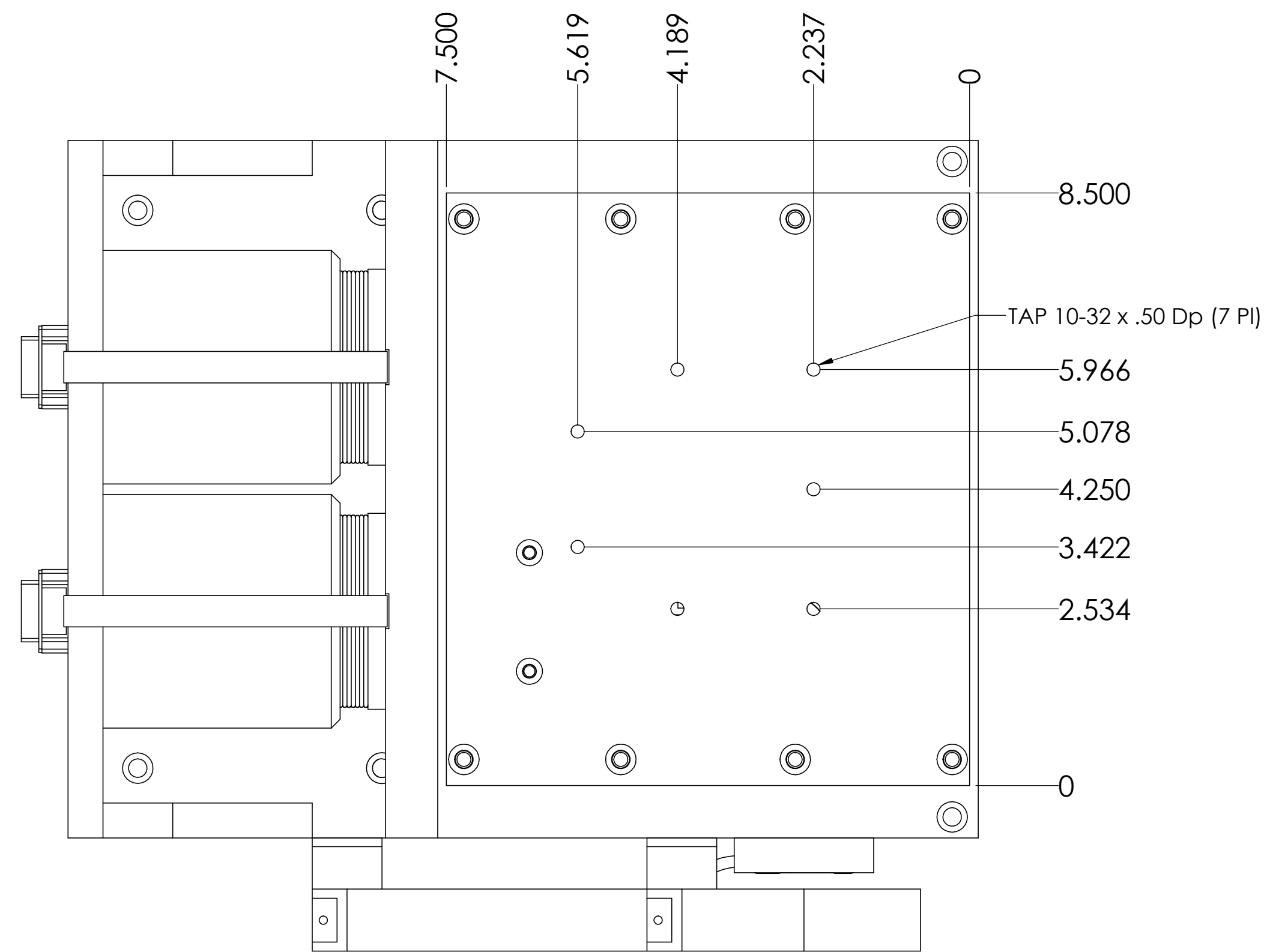


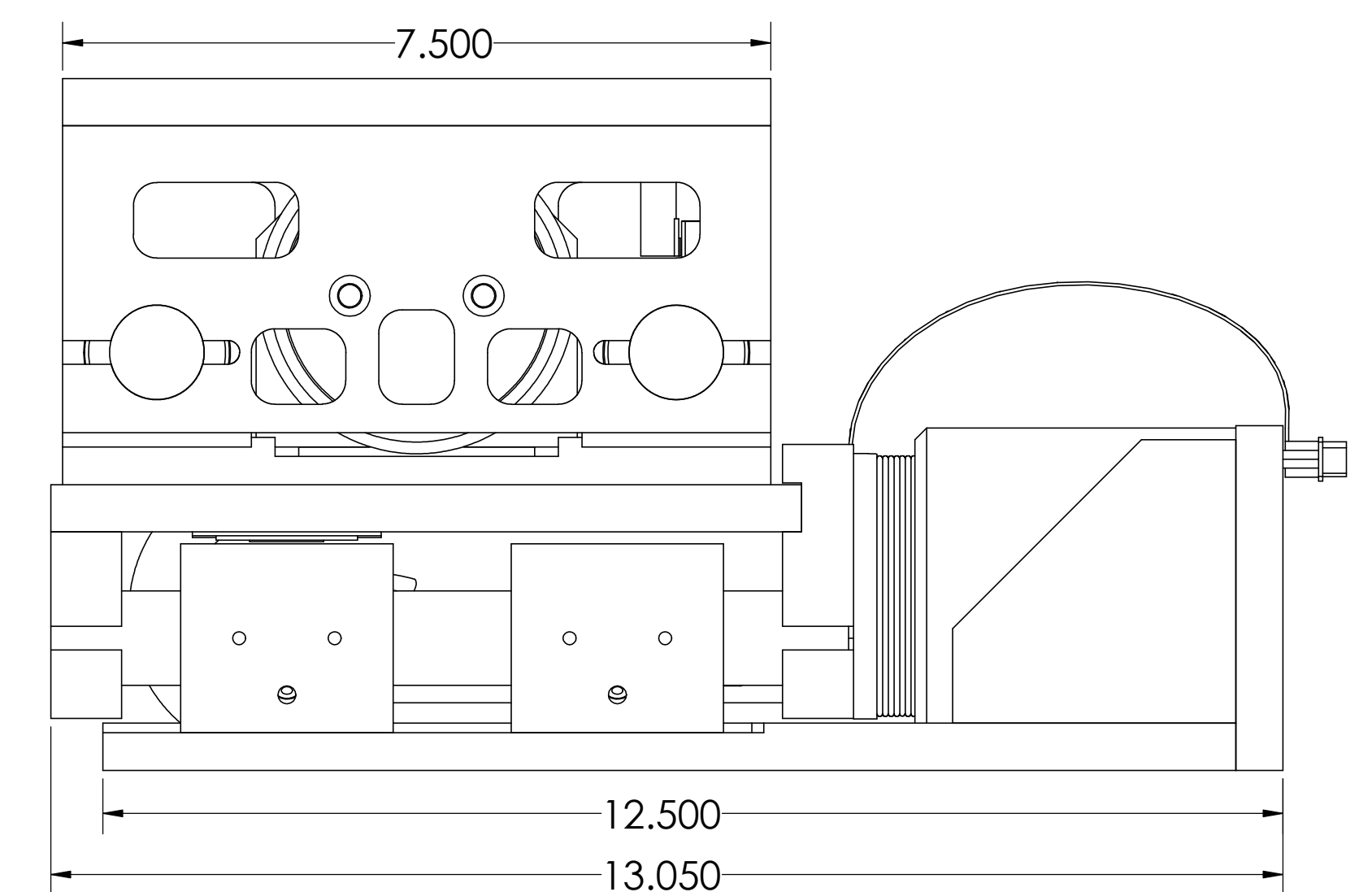
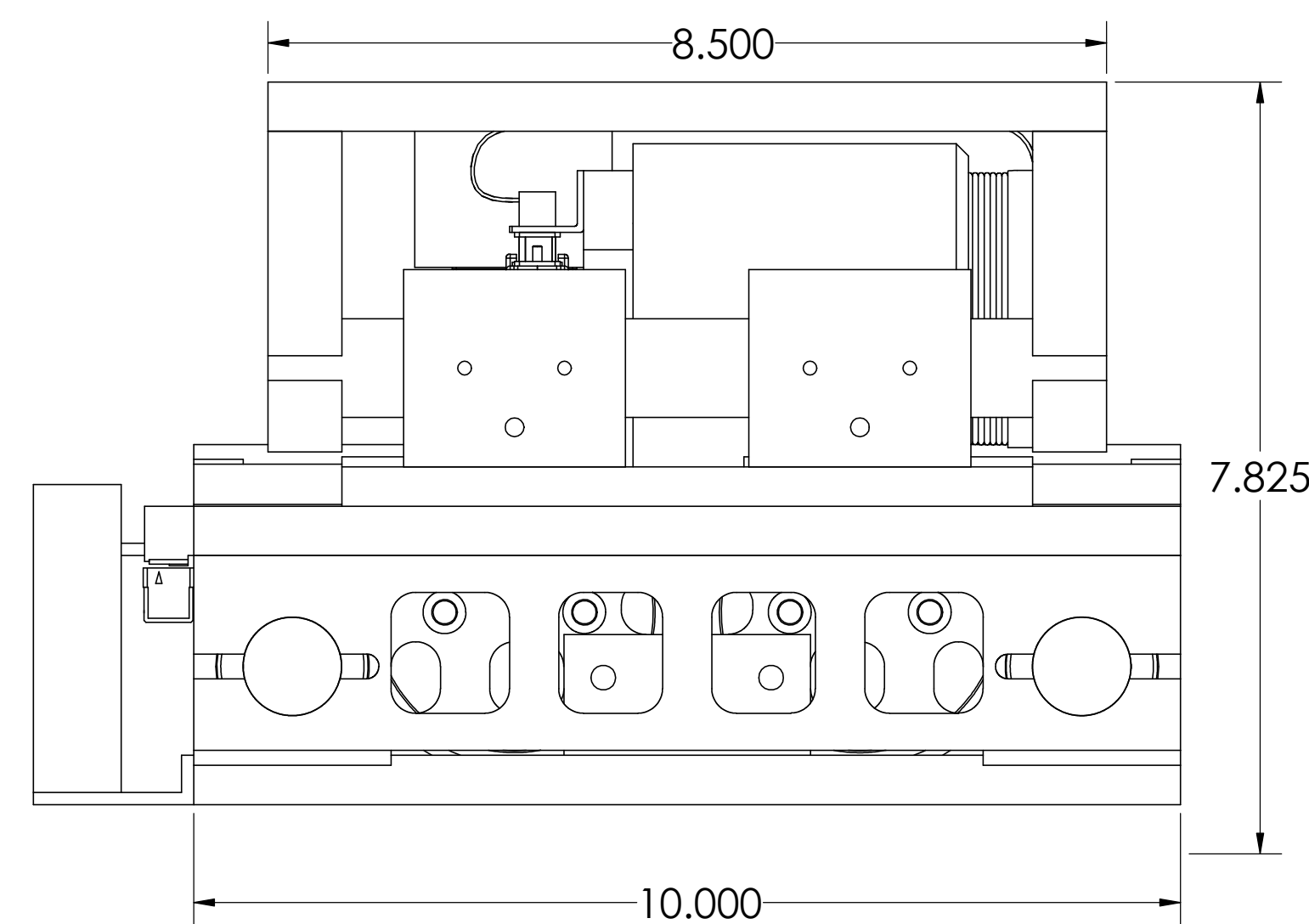
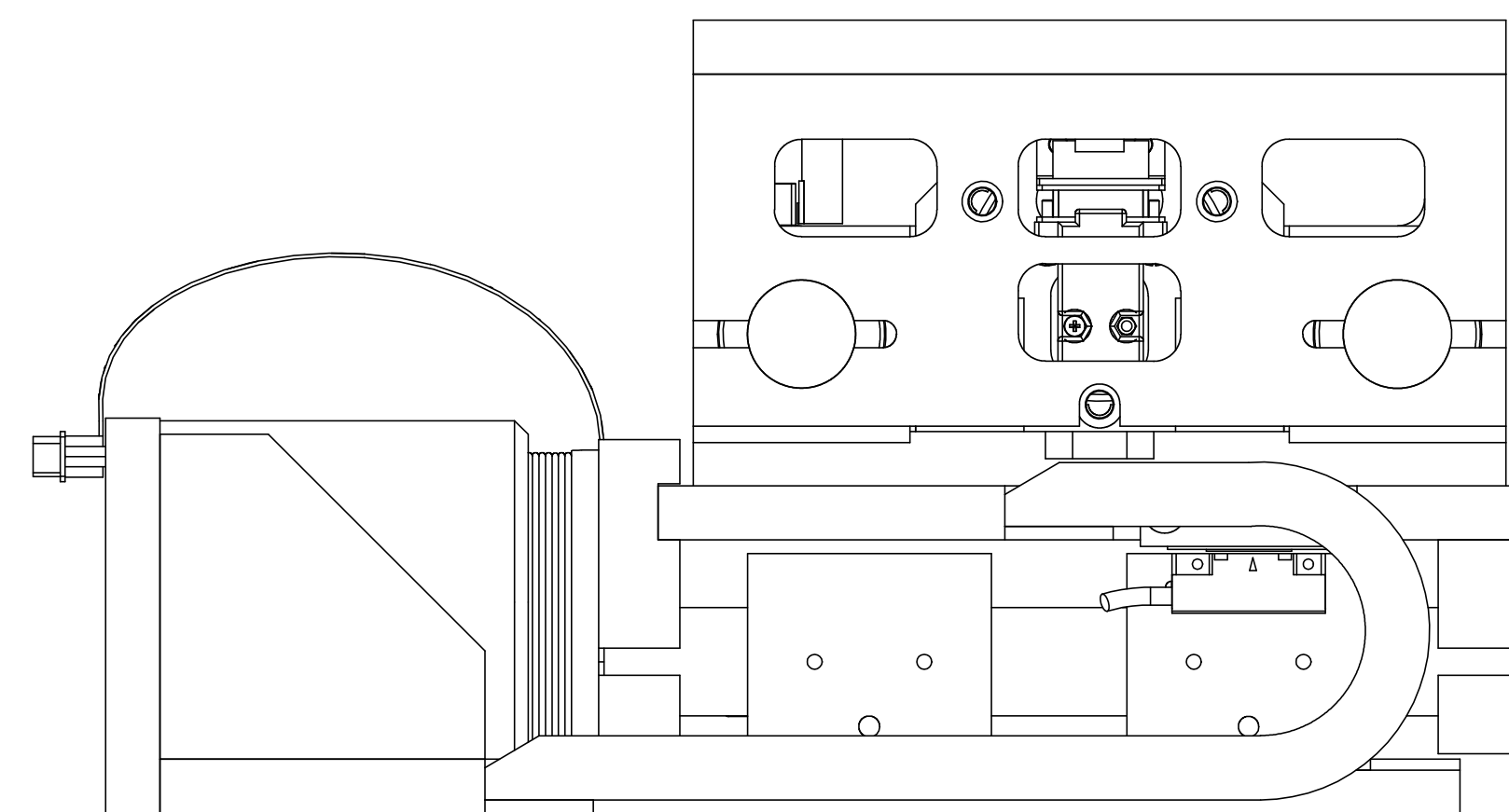
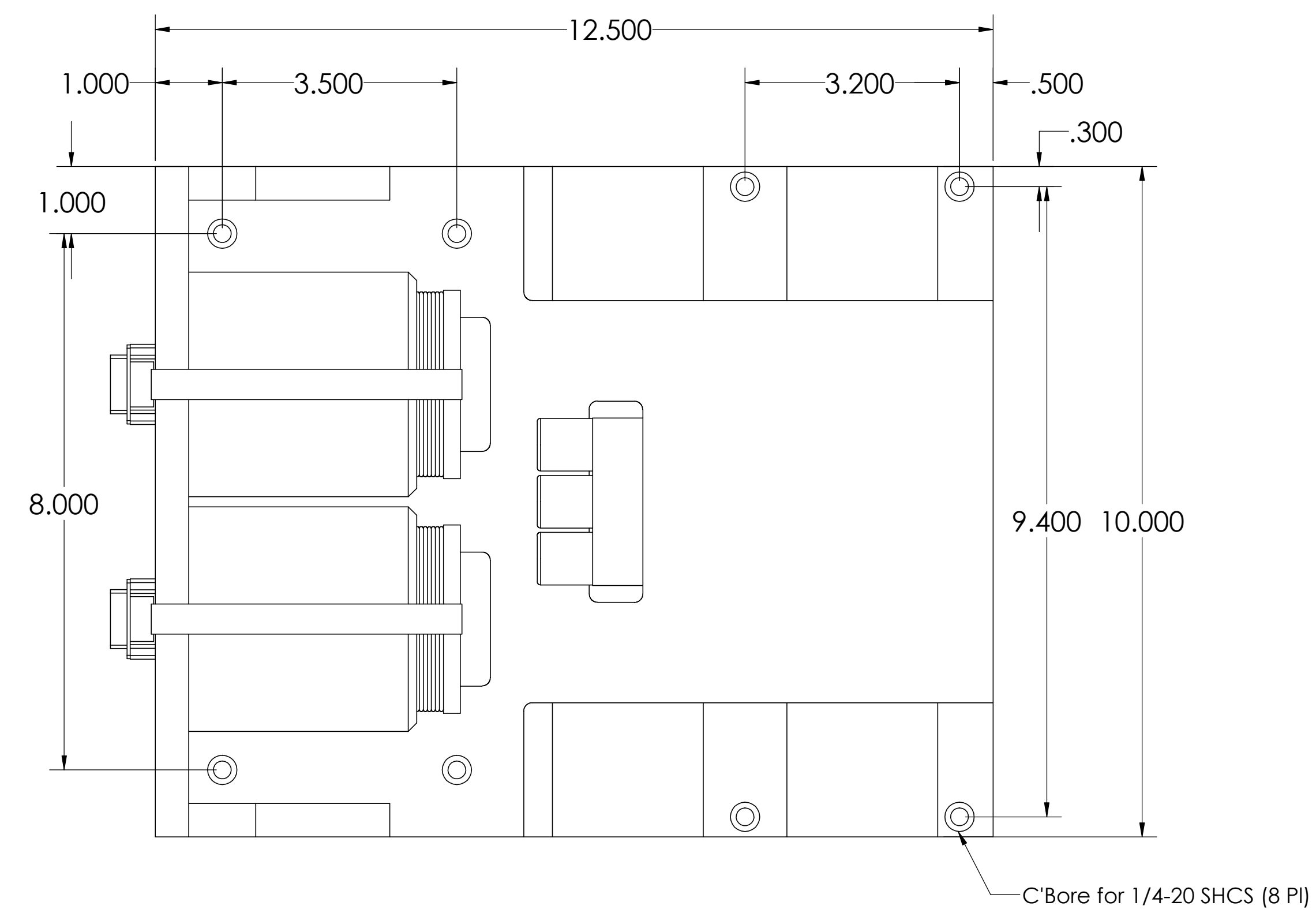
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REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	10-1-13

TOP PAYLOAD MOUNTING PLATE



PARTS HAVE BEEN HIDDEN TO SHOW BASE MOUNTING HOLES

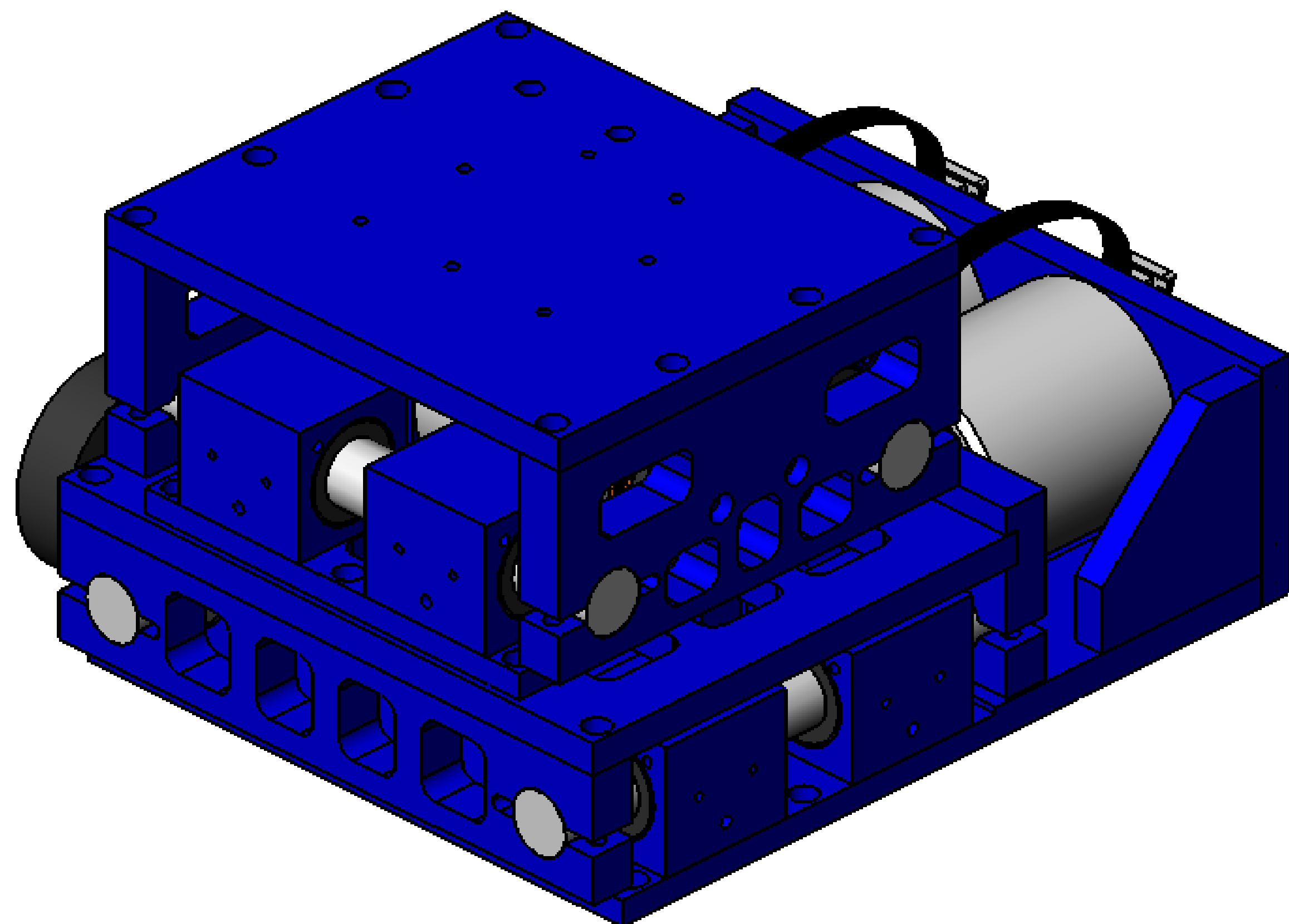
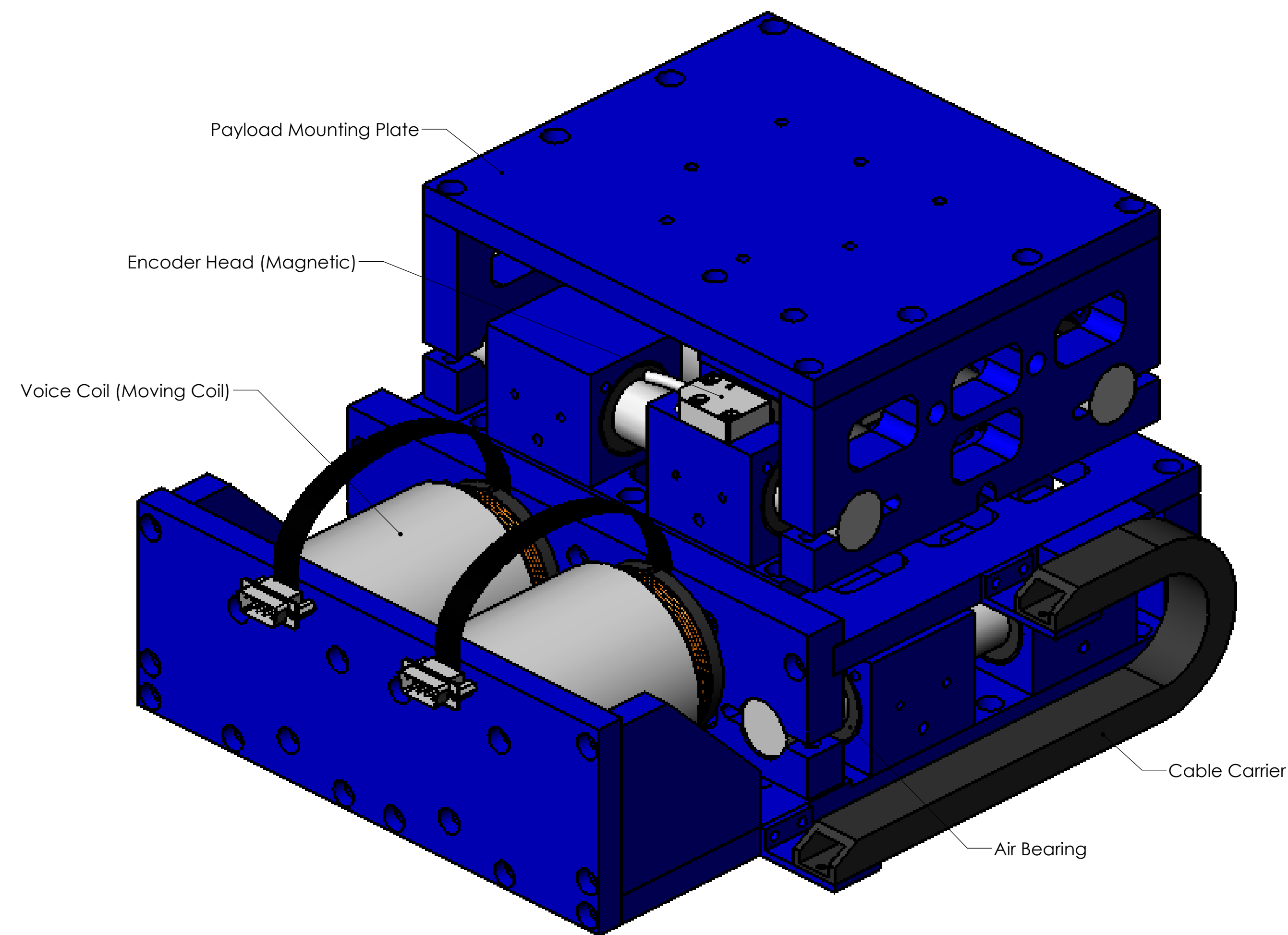


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UNLESS SPECIFIED OTHERWISE: All dimensions are in inches. Standard Tolerances are as follows: XX .000 FRACTIONS AND X .001 DECIMALS Remove All Burs and Sharp Edges		MATERIAL	TITLE
FINISH	DATE	APPROVED	DATE
DRAWN	DATE	MPW	10-1-13
OOG	10-1-13		

Voice Coil Positioning Stage
VCS08-700/08-350-AB-01-MC-XY
31-0649 REV --- SHEET 1 of 2

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VOICE COIL POSITIONING STAGE SPECIFICATIONS (Top Axis)

Motor P/N	NCC08-34-350-2X	
Stroke	0.80"	20.3 mm
Encoder Resolution	1 micron	
Encoder Type	Magnetic	
Bearing Type	Air Bushing	
Moving Mass	10.25 lbs	4.65 kg
Total Mass	21.25 lbs	9.65 Kg
Resistance @ 20C	6.25 ohms	
Inductance @ 20C	5.0 mH	
Electrical Time Constant	0.80 msec	
Motor Constant	5.80 LBS/SQRT(Watt)	25.8 N/SQRT(Watt)
Force Constant	14.5 LBS/Amp	64.2 N/Amp
Back EMF	1.6 V/ips	64.2 V/m/sec
Force @ 100% Duty	35 LBS	156 N
Power @ 100% Duty	36 Watts	
Current @ 100% Duty	2.4 amps	
Force @ 10% Duty	105 LBS	467 N
Power @ 10% Duty	330 Watts	
Current @ 10% Duty	7.3 amps	
Moving Part	Coil Assembly	

VOICE COIL POSITIONING STAGE SPECIFICATIONS (Bottom Axis)

Motor P/N (2 Motors)	NCC08-34-350-2X	
Stroke	0.80"	20.3 mm
Encoder Resolution	1 micron	
Encoder Type	Magnetic	
Bearing Type	Air Bushing	
Moving Mass	10.5 lbs	4.75 kg
Total Mass	34.0 lbs	15.5 Kg
Resistance @ 20C	12.5 ohms	
Inductance @ 20C	10.0 mH	
Electrical Time Constant	0.80 msec	
Motor Constant	11.6 LBS/SQRT(Watt)	51.6 N/SQRT(Watt)
Force Constant	29 LBS/Amp	129 N/Amp
Back EMF	3.2 V/ips	128.4 V/m/sec
Force @ 100% Duty	70 LBS	312 N
Power @ 100% Duty	72 Watts	
Current @ 100% Duty	4.8 amps	
Force @ 10% Duty	210 LBS	935 N
Power @ 10% Duty	660 Watts	
Current @ 10% Duty	14.6 amps	
Moving Part	Coil Assembly	

NOTE:
 - Electrical specs & masses are per individual axis
 - Total stage weight = 55.25 lbs (25Kg)