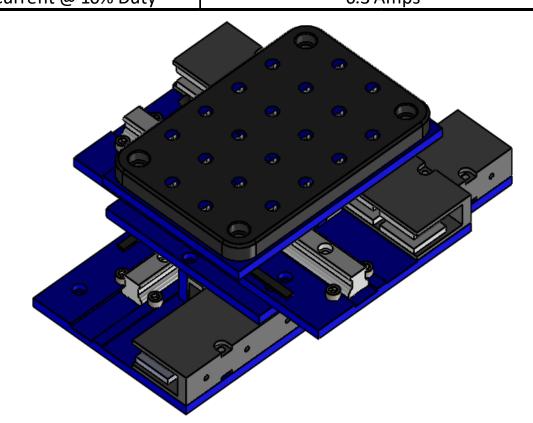


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SINGLE RAIL POSITIONING STAGE SPECIFICATIONS (Top Axis)						
Motor P/N	BLDM-B02					
Stroke	4.3"	109 mm				
Encoder Resolution	1 micron					
Bearing Type	Linear Bearing					
Moving Mass	0.80 lbs	0.36 Kg				
Total Mass	3.6 lbs	1.63 Kg				
Resistance @ 25C	3.2 ohms					
nductance @ 25C	15.9 mH					
Electrical Time Constant	1.0 msec					
Motor Constant	0.84 LBS/SQRT(Watt)	3.7 N/SQRT(Watt)				
Force Constant	1.48 LBS/A Peak	6.57 N/A Peak				
Back EMF	0.17 V/ips	6.7 V/m/sec				
Force @ 100% Duty	3.1 LBS	13.8 N				
Power @ 100% Duty	19.6 Watts					
Current @ 100% Duty	2.1 Amps					
Force @ 10% Duty	9.4 LBS	41.8 N				
Power @ 10% Duty	176 Watts					
Current @ 10% Duty	6.3 Amps					

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9 9 9		

SINGLE RAIL POSITIONING STAGE SPECIFICATIONS (Bottom Axis) Motor P/N BLDM-B04 4.3" 109 mm Stroke 1 micron Encoder Resolution Linear Bearing Bearing Type Moving Mass 1.4 lbs 0.64 Kg 5.0 lbs Total Mass 2.27 Kg 6.4 ohms Resistance @ 25C 4.0 mH Inductance @ 25C 1.0 msec Electrical Time Constant 1.2 LBS/SQRT(Watt) 5.2 N/SQRT(Watt) **Motor Constant** Force Constant 3.0 LBS/A Peak 13.2 N/A Peak 13.2 V/m/sec Back EMF 0.34 V/ips Force @ 100% Duty 6.2 LBS 27.8 N 39.3 Watts Power @ 100% Duty 2.1 Amps Current @ 100% Duty Force @ 10% Duty 18.7 LBS 83.3 N 354 Watts Power @ 10% Duty Current @ 10% Duty 6.3 Amps



Mases do not include Payload Mounting Optical Breadboard Plate 1.0 lbs [0.45 Kg]

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В

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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
.Bemove All Burrs and Share Edges Remove All Burrs and Sharp Edges

FOR REFERENCE ONLY

ATERIAL	TITLE	DWG#	40-0459
Single Rail Positioning Stage Mod		25.4	TU-UTJJ
1101		REV	
NISH	SRS-004-006/004-003-01-XY	DATE 2-16-20	SHEET 2 of 2