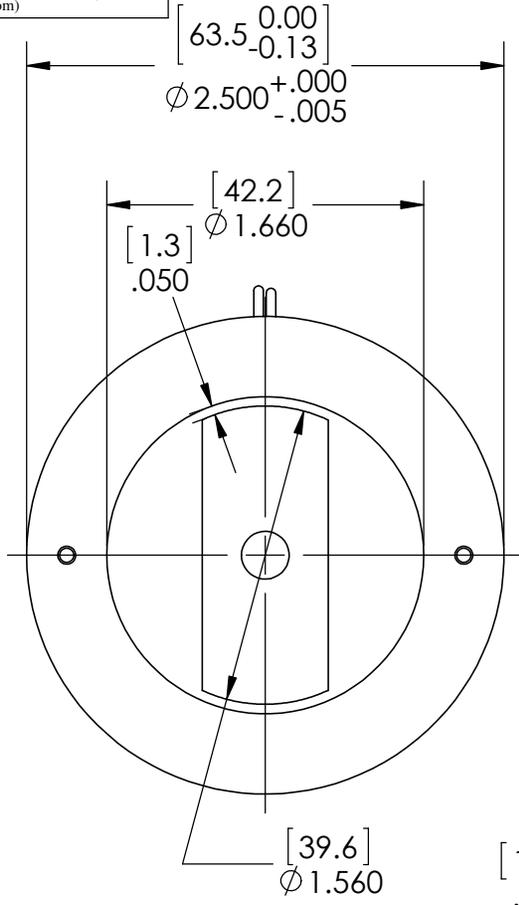
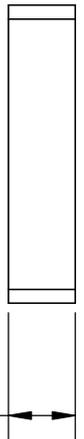
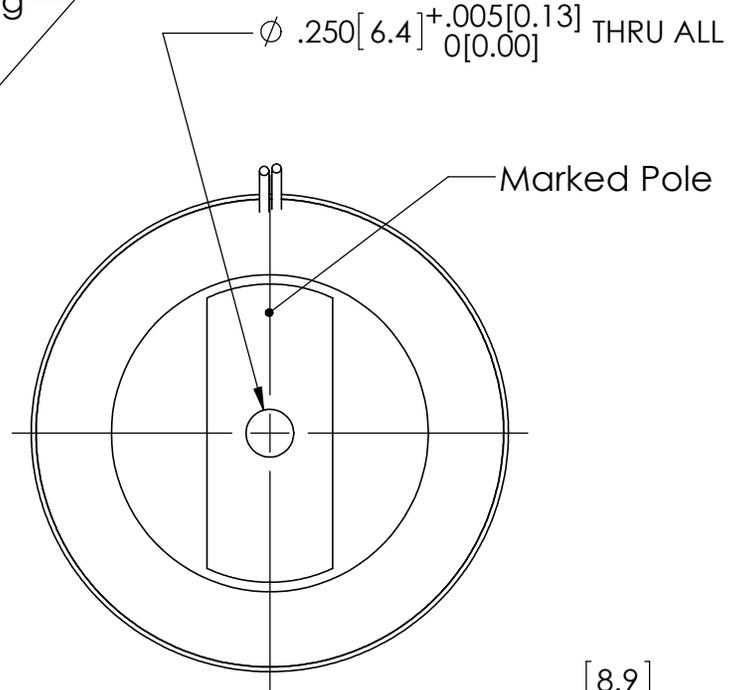


These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc. (www.h2wtech.com)

REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	JRM	MPW	10-30-13



Power Leads (2)
 Red #24 AWG 18" Long
 Black #24 AWG 18" Long



Magnetic Rotor

Note:
 When power is connected + to Red and - to Black then the rotor will turn clockwise as shown in the view above.



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 Burs and Sharp Edges

MATERIAL			
FINISH			
DRAWN	DATE	APPROVED	DATE
JRM	10-30-13	MPW	10-30-13

H2W Technologies, Inc. 26470 Ruether Ave #102 Santa Clarita, CA 91350 USA Tel: (661) 251-2081 Fax: (661) 251-2067 www.h2wtech.com			
Limited Angle Torque Motor Model# TMR-120-25-004-2			
TITLE	DWG #	REV	SHEET
	80-0264	---	1 of 2

LIMITED ANGLE TORQUE MOTOR SPECIFICATIONS

Motor P/N	TMR-120-25-004-2	
Continuous Torque Range	120 degrees	2.10 Radians
Radial Clearance	0.050" per side	1.27 mm per side
Bearing Type	None Provided	
Moving Mass	0.09 lbs*	43 grams*
Total Mass	0.33 lbs*	150 grams*
Resistance @ 20C	5.4 ohms +/- 10%	
Inductance @ 20C	1.90 mH*	
Electrical Time Constant	0.35 msec*	
Motor Constant	1.8 in-oz/SQRT(Watt)*	0.013 N-m/SQRT(Watt)*
Torque Constant	4.18 in-oz/Amp*	0.029 N-m/Amp*
Back EMF	0.063 Volts/rad/sec*	
Continuous Torque	4 in-oz*	0.028 N-m*
Max Power @ 100% Duty	5 Watts	
Peak Torque	12 in-oz*	0.084 N-m*
Max Power @ 10% Duty	44 Watts	
Rotor Inertia	0.36 oz-sq.in.	6.59 E-6 kg-sq.m

* Values based on calculations and are for reference only, actual values will be confirmed upon shipment. As a rule of thumb the values contained are +/- 10% unless otherwise stated within the table.

TITLE Limited Angle Torque Motor Model# TMR-120-25-004-2		
DWG #	80-0264	REV

SHEET	2 of 2	