

ACTUATORS & DAMPERS

Eddy Current Dampers (ECDs)

Part Number		560-101-0048
Mechanical Parameters	Units	Value
Axial Length	inches [mm]	3.5 [88.9]
Maximum OD ¹	inches [mm]	1.1 [27.9]
Mass	lbm [kg]	0.625 [0.28]
Performance Parameters	Units	Value
Peak Torque Capacity	lbf-in [N.m]	60 [6.77]
Damping Rate ²	lbf-in/rad/sec [N.m/rad/s]	150 [16.95]
Resistive Static Breakaway Torque ²	lbf-in [N.m]	2.5 [0.28]
Operating Cycles at 0.9995 Reliability	Minimum	500
Environmental Parameters	Units	Value
Operational Temperature Range	°C	-50 to +100
Operational Relative Humidity Range	%	0 to 90
Gearbox Parameters	Units	Value
Gearbox Type	-	Planetary
Gear Reduction	-	100
Number of Stages	-	2
Typical Backlash	°	1°

¹ Mounting flange not included. See ICD for details.

² Values are nominal at 25° C and an input torque of 15.75 in-lbf, resulting in a rate of 1RPM at the output shaft. Damping rate is affected by temperature and is also slightly nonlinear with speed. Please contact Honeybee Robotics for damping rates at specific operating temperatures and speeds for your application.

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CONTACT US

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