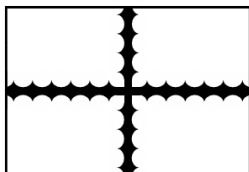


# Microsatellite Torque Rods

TQ-15 (upper) and TQ-40 (lower)



<b>Nominal Dipole</b>	15 Am <sup>2</sup> @ 28 V	42 Am <sup>2</sup> @ 28 V
<b>Max Dipole</b>	19 Am <sup>2</sup> @ 34 V	48 Am <sup>2</sup> @ 34 V
<b>Length</b>	228 mm (single) 237 mm (redundant)	338 mm (single)
<b>Mass</b>	400 g (single) 740 g (redundant)	825 g (single)
<b>Resistance</b>	250 Ω nominal each coil	
<b>Connector</b>	Twist-pin micro-D style	
<b>Options</b>	Temperature sensors, other voltages	
<b>Environment</b>	-35°C to +75°C operating temperature 12 g <sub>RMS</sub> Vibration, 1500 g shock	
<b>Heritage</b>	3 Units launched November 2010 69 Additional flight units delivered	



**Sinclair  
Interplanetary**

Contact  
+1-647-286-3761  
dns@sinclairinterplanetary.com

Rev 2011a