

Document Number		RG_SPEC-0018	
Title		Single Axis Accelerometer	
Revision	Date	Prepared By	Change History
1.0	2/15/2012	Chris Brown	Initial release.

This accelerometer is designed to measure data from uprights/hubs and chassis specifically for use with shaker rig testing. It responds to both DC and AC accelerations and comes in a sealed harsh environment case. For best results use only with a MoTeC SVIM (Synchronis Versatile Input Module).

Part # M ADXL-1 50G

Specifications:

Output:	0.5 - 4.5v ratiometric
Supply Voltage:	5.00 ±0.25 VDC
Current Consumption:	10mA
Output Impedance:	90 ohm
Range:	-50 to +50 G
Max Acceleration:	2000 G for 0.1 msec.
Frequency Response:	up to 1600 Hz
Temperature Range:	-40°C to +125°C
Weight:	20 grams w/o connector



Calibration:

Scale Factor:	40 mV/G single ended
	80 mV/G differential

Connection:

Mating Connector:	customer specified
	red – 5 volts
	black – 0 volts
	green – positive signal
	while – negative signal*
	shield – 0 volts

The cable shield is connected internally to the case, while the GND wire is separate.

*Only for use with differential connections.

For SVIM use AV F or AV D inputs.

For VIM use AV F inputs only.

