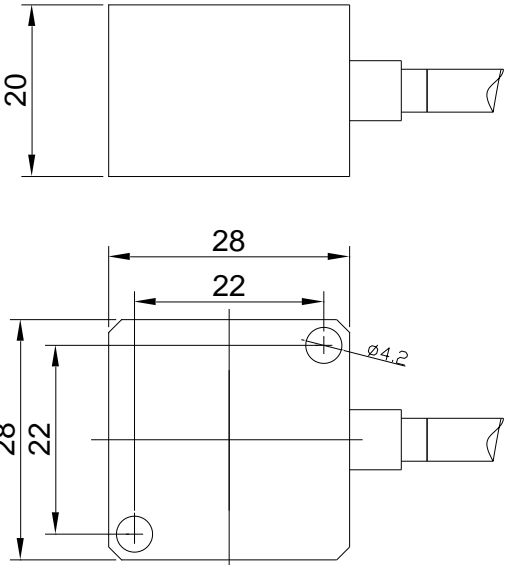




Product Model: MM183A series	MEMS Accelerometer(DC Response)		Version: A Date: 20/06/2024																																				
<p>Uses:</p> <ul style="list-style-type: none"> • Low-frequency, motion and tilt measurements • Flight testing • Road load testing • Transportation • Modal analysis <p>Features:</p> <ul style="list-style-type: none"> • High temperature stability • Hermetically sealed • Low power consumption 	<table border="1"> <thead> <tr> <th>Performance</th> <th>MM183A50P</th> </tr> </thead> <tbody> <tr><td>Sensitivity ($\pm 10\%$)</td><td>40 mV/g</td></tr> <tr><td>Measurement Range</td><td>± 50 g</td></tr> <tr><td>Resolution</td><td>3.5 mg rms</td></tr> <tr><td>Frequency Range($\pm 5\%$)</td><td>0-800 Hz</td></tr> <tr><td>Non-linearity</td><td>≤ 1 %</td></tr> <tr><td>Transverse Sensitivity</td><td>$\leq 5\%$</td></tr> <tr><td>Overload Limit (Shock)</td><td>± 5000g</td></tr> <tr><td>Temperature Range</td><td>-40 ~ +85 °C</td></tr> <tr><td>Excitation Voltage</td><td>+9 ~ +15 VDC</td></tr> <tr><td>Excitation Current</td><td>≤ 5 mA</td></tr> <tr><td>Size mm</td><td>As left figure</td></tr> <tr><td>Weight</td><td>~25 g</td></tr> <tr><td>Mounting</td><td>(2) $\Phi 4$(Thru-hole)</td></tr> <tr><td>Output Impedance</td><td>≤ 100 Ω</td></tr> <tr><td>Output Connector</td><td>Integral Cable</td></tr> <tr><td>Housing Material</td><td>Titanium</td></tr> <tr><td>Sealing</td><td>Welded</td></tr> </tbody> </table>	Performance	MM183A50P	Sensitivity ($\pm 10\%$)	40 mV/g	Measurement Range	± 50 g	Resolution	3.5 mg rms	Frequency Range($\pm 5\%$)	0-800 Hz	Non-linearity	≤ 1 %	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	± 5000 g	Temperature Range	-40 ~ +85 °C	Excitation Voltage	+9 ~ +15 VDC	Excitation Current	≤ 5 mA	Size mm	As left figure	Weight	~25 g	Mounting	(2) $\Phi 4$ (Thru-hole)	Output Impedance	≤ 100 Ω	Output Connector	Integral Cable	Housing Material	Titanium	Sealing	Welded	<p>The MEMS Accelerometer, are DC response accelerometers. Designed to measure low-frequency vibration down to DC. The sensing element offers a wide dynamic range and very stable frequency response even after subjection to high shock levels. It features an integral cable that terminates with a LEMO 7 pin connector associated with MM3832 (signal conditioner). The housing material is titanium.</p> 	 <p style="text-align: center;">Metromatics ABN: 47 007 346 287</p>
	Performance	MM183A50P																																					
	Sensitivity ($\pm 10\%$)	40 mV/g																																					
	Measurement Range	± 50 g																																					
	Resolution	3.5 mg rms																																					
	Frequency Range($\pm 5\%$)	0-800 Hz																																					
	Non-linearity	≤ 1 %																																					
	Transverse Sensitivity	$\leq 5\%$																																					
	Overload Limit (Shock)	± 5000 g																																					
	Temperature Range	-40 ~ +85 °C																																					
	Excitation Voltage	+9 ~ +15 VDC																																					
	Excitation Current	≤ 5 mA																																					
	Size mm	As left figure																																					
	Weight	~25 g																																					
Mounting	(2) $\Phi 4$ (Thru-hole)																																						
Output Impedance	≤ 100 Ω																																						
Output Connector	Integral Cable																																						
Housing Material	Titanium																																						
Sealing	Welded																																						
Accessories	<ol style="list-style-type: none"> 1. Integral cable (5 cores) 1ea 3m 2. Certificate of inspection 1ea 3. M4 stud 2ea 	<p>25 Flinders Parade, North Lakes QLD 4509, AUSTRALIA www.metromatics.com.au sales@metromatics.com.au Brisbane: +61 7 3868 4255 I Sydney: +61 2 9460 4355 Melbourne: +61 3 9872 4592</p>																																					
Remark																																							

