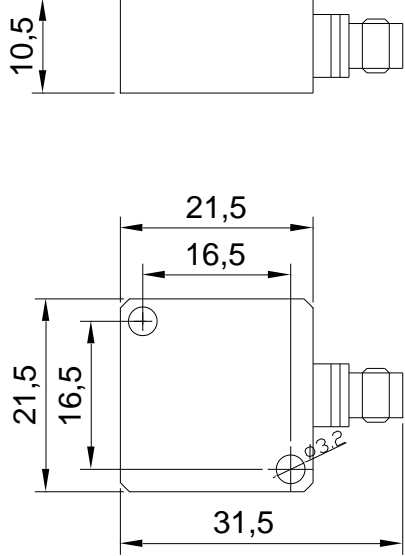




Product Model: <b>MM181A series</b>	<b>MEMS Accelerometer (DC Response)</b>		Version: <b>A</b> Date: <b>19/06/204</b>																																				
<p>Uses:</p> <ul style="list-style-type: none"> <li>• Low-frequency, motion and tilt measurements</li> <li>• Flight testing</li> <li>• Road load testing</li> <li>• Transportation</li> <li>• Modal analysis</li> </ul> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• High temperature stability</li> <li>• Hermetically sealed</li> <li>• Low power consumption</li> </ul> 	<table border="1"> <thead> <tr> <th>Performance</th> <th><b>MM181A10P</b></th> </tr> </thead> <tbody> <tr><td>Sensitivity (<math>\pm 10\%</math>)</td><td>200 mV/g</td></tr> <tr><td>Measurement Range</td><td><math>\pm 10</math> g</td></tr> <tr><td>Resolution</td><td>0.8 mg rms</td></tr> <tr><td>Frequency Range(<math>\pm 1</math> dB)</td><td>0-400 Hz</td></tr> <tr><td>Non-linearity</td><td><math>\leq 1</math> %</td></tr> <tr><td>Transverse Sensitivity</td><td><math>\leq 5\%</math></td></tr> <tr><td>Overload Limit (Shock)</td><td><math>\pm 5000</math>g</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><math>\leq 5</math> mA</td></tr> <tr><td>Size mm</td><td>As left figure</td></tr> <tr><td>Weight</td><td>~17 g</td></tr> <tr><td>Mounting</td><td>(2) <math>\Phi 3</math>(Thru-hole)</td></tr> <tr><td>Output Impedance</td><td><math>\leq 100</math> <math>\Omega</math></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	<b>MM181A10P</b>	Sensitivity ( $\pm 10\%$ )	200 mV/g	Measurement Range	$\pm 10$ g	Resolution	0.8 mg rms	Frequency Range( $\pm 1$ dB)	0-400 Hz	Non-linearity	$\leq 1$ %	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	$\pm 5000$ g	Temperature Range	-40 ~ +85 °C	Excitation Voltage	+9 ~ +15 VDC	Excitation Current	$\leq 5$ mA	Size mm	As left figure	Weight	~17 g	Mounting	(2) $\Phi 3$ (Thru-hole)	Output Impedance	$\leq 100$ $\Omega$	Output Connector	Integral Cable	Housing Material	Titanium	Sealing	Welded	<p><b>The MEMS Accelerometer</b>, 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><b>Metromatics</b> ABN: 47 007 346 287</p>
Performance	<b>MM181A10P</b>																																						
Sensitivity ( $\pm 10\%$ )	200 mV/g																																						
Measurement Range	$\pm 10$ g																																						
Resolution	0.8 mg rms																																						
Frequency Range( $\pm 1$ dB)	0-400 Hz																																						
Non-linearity	$\leq 1$ %																																						
Transverse Sensitivity	$\leq 5\%$																																						
Overload Limit (Shock)	$\pm 5000$ g																																						
Temperature Range	-40 ~ +85 °C																																						
Excitation Voltage	+9 ~ +15 VDC																																						
Excitation Current	$\leq 5$ mA																																						
Size mm	As left figure																																						
Weight	~17 g																																						
Mounting	(2) $\Phi 3$ (Thru-hole)																																						
Output Impedance	$\leq 100$ $\Omega$																																						
Output Connector	Integral Cable																																						
Housing Material	Titanium																																						
Sealing	Welded																																						
Accessories	<ol style="list-style-type: none"> <li>1. Integral cable (4 cores) 1ea 3m</li> <li>2. Certificate of inspection 1ea</li> <li>3. M3 stud 2ea</li> </ol>		<p>25 Flinders Parade, North Lakes QLD 4509, AUSTRALIA  <a href="http://www.metromatics.com.au">www.metromatics.com.au</a>      <a href="mailto:sales@metromatics.com.au">sales@metromatics.com.au</a>  Brisbane: +61 7 3868 4255    I    Sydney: +61 2 9460 4355  Melbourne: +61 3 9872 4592</p>																																				
Remark																																							