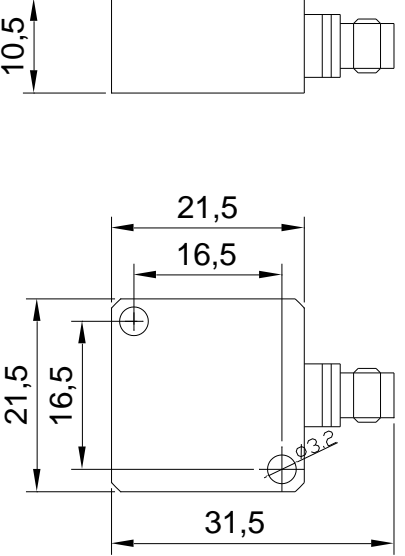




Product Model: <b>MM181A series</b>		<b>MEMS Accelerometer (DC Response)</b>		Version: <b>A</b> Date: <b>25.10.2023</b>																																						
<p>Uses:</p> <ul style="list-style-type: none"> <li>• Low-frequency, motion and tilt measurements</li> <li>• Flight testing</li> <li>• Road load testing</li> <li>• Transportation</li> <li>• Modal analysis</li> </ul> <p>Features:</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>MM181A100P</b></th> </tr> </thead> <tbody> <tr> <td>Axis</td> <td>Z</td> </tr> <tr> <td>Sensitivity (<math>\pm 10\%</math>)</td> <td>20 mV/g</td> </tr> <tr> <td>Measurement Range</td> <td><math>\pm 100</math> g</td> </tr> <tr> <td>Resolution</td> <td>5 mg rms</td> </tr> <tr> <td>Frequency Range(<math>\pm 5\%</math>)</td> <td>0-800 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>MM181A100P</b>	Axis	Z	Sensitivity ( $\pm 10\%$ )	20 mV/g	Measurement Range	$\pm 100$ g	Resolution	5 mg rms	Frequency Range( $\pm 5\%$ )	0-800 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>MEMS Accelerometer</b>, the DC response accelerometers, is 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. Our <b>MEMS Accelerometer</b> features an integral cable that terminates with a LEMO 7 pin connector associated with MM3832 (signal conditioner). The housing material is titanium.</p> 	
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<p>Remark</p>		<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         Sydney: +61 2 9460 4355  Melbourne: +61 3 9872 4592     </p>																																								