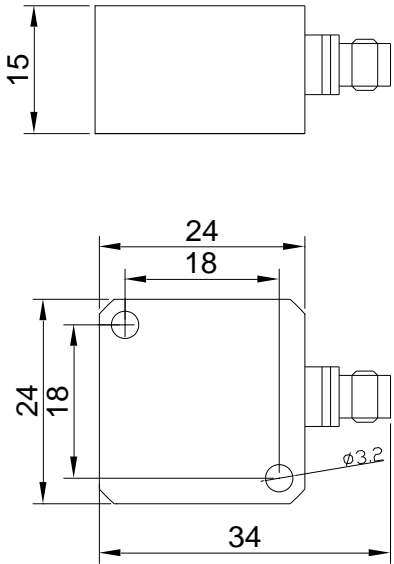




Product Model: <b>MM182A series</b>	<b>MEMS Accelerometer (DC Response)</b>		Version: <b>A</b> Date: <b>19/06/2024</b>																																				
<p>Uses:</p> <ul style="list-style-type: none"> <li>• Low-frequency, motion and tilt measurements</li> <li>• Flight testing</li> <li>• Road load testing</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>MM182A02P</th> </tr> </thead> <tbody> <tr><td>Sensitivity (<math>\pm 10\%</math>)</td><td>1000 mV/g</td></tr> <tr><td>Measurement Range</td><td><math>\pm 2</math> g</td></tr> <tr><td>Resolution</td><td>0.15 mg rms</td></tr> <tr><td>Frequency Range (<math>\pm 1</math> dB)</td><td>0-150 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 <math>\sim</math> +85 °C</td></tr> <tr><td>Excitation Voltage</td><td>+9 <math>\sim</math> +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><math>\sim 20</math> 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> </tbody> </table>	Performance	MM182A02P	Sensitivity ( $\pm 10\%$ )	1000 mV/g	Measurement Range	$\pm 2$ g	Resolution	0.15 mg rms	Frequency Range ( $\pm 1$ dB)	0-150 Hz	Non-linearity	$\leq 1$ %	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	$\pm 5000$ g	Temperature Range	-40 $\sim$ +85 °C	Excitation Voltage	+9 $\sim$ +15 VDC	Excitation Current	$\leq 5$ mA	Size mm	As left figure	Weight	$\sim 20$ g	Mounting	(2) $\Phi 3$ (Thru-hole)	Output Impedance	$\leq 100$ $\Omega$	Output Connector	Integral Cable	Housing Material	Titanium	<table border="1"> <tbody> <tr><td>Sealing</td><td>Welded</td></tr> </tbody> </table>	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> 
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Accessories	<ol style="list-style-type: none"> <li>1. Integral cable (5 cores) 1ea 3m</li> <li>2. Certificate of inspection 1ea</li> <li>3. M3 stud 2ea</li> </ol>		 <p style="text-align: center;"><b>Metromatics</b> ABN: 47 007 346 287</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    I    Sydney: +61 2 9460 4355  Melbourne: +61 3 9872 4592</p>																																				
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