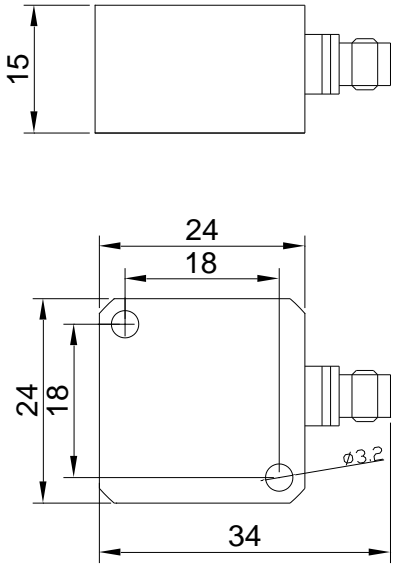




Product Model: <b>MM182A series</b>	<b>MEMS Accelerometer(DC Response)</b>		Version: <b>A</b> Date: <b>20/06/2024</b>																												
<p>Uses:</p> <ul style="list-style-type: none"> <li>•Low-frequency, motion and tilt measurements</li> <li>• Flight testing</li> <li>• Road load testing</li> <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>MM182A20</th> </tr> </thead> <tbody> <tr> <td>Sensitivity (<math>\pm 10\%</math>)</td> <td>100 mV/g</td> </tr> <tr> <td>Measurement Range</td> <td><math>\pm 20</math> g</td> </tr> <tr> <td>Resolution</td> <td>10 mg rms</td> </tr> <tr> <td>Frequency Range(<math>\pm 5\%</math>)</td> <td>0-300 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 3000</math>g</td> </tr> </tbody> </table>	Performance	MM182A20	Sensitivity ( $\pm 10\%$ )	100 mV/g	Measurement Range	$\pm 20$ g	Resolution	10 mg rms	Frequency Range( $\pm 5\%$ )	0-300 Hz	Non-linearity	$\leq 1$ %	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	$\pm 3000$ g	<table border="1"> <tbody> <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>~20 g</td> </tr> <tr> <td>Mounting</td> <td>(2) <math>\Phi 3</math>(Thru-hole)</td> </tr> </tbody> </table>	Temperature Range	-40 ~ +85 °C	Excitation Voltage	+9 ~ +15 VDC	Excitation Current	$\leq 5$ mA	Size mm	As left figure	Weight	~20 g	Mounting	(2) $\Phi 3$ (Thru-hole)	<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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