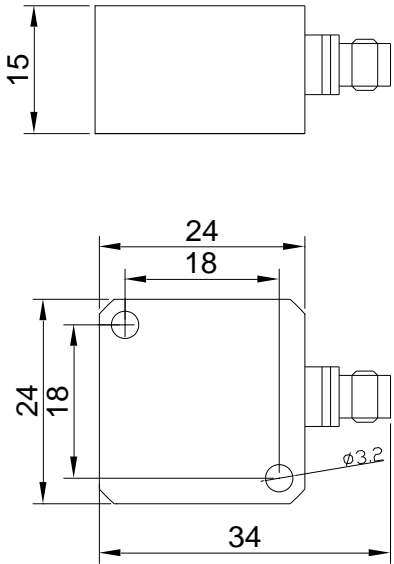




Product Model: MM182A series	MEMS Accelerometer (DC Response)		Version: A Date: 19/06/2024																																				
<p>Uses:</p> <ul style="list-style-type: none"> • Low-frequency, motion and tilt measurements • Flight testing • Road load testing • Transportation • Modal analysis <p>Features:</p> <ul style="list-style-type: none"> • High temperature stability • Hermetically sealed • Low power consumption 	<table border="1"> <thead> <tr> <th>Performance</th> <th>MM182A02</th> </tr> </thead> <tbody> <tr> <td>Sensitivity ($\pm 10\%$)</td> <td>1000 mV/g</td> </tr> <tr> <td>Measurement Range</td> <td>± 2 g</td> </tr> <tr> <td>Resolution</td> <td>4 mg rms</td> </tr> <tr> <td>Frequency Range ($\pm 5\%$)</td> <td>0-200 Hz</td> </tr> <tr> <td>Non-linearity</td> <td>$\leq 1\%$</td> </tr> <tr> <td>Transverse Sensitivity</td> <td>$\leq 5\%$</td> </tr> <tr> <td>Overload Limit (Shock)</td> <td>± 3000g</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>~20 g</td> </tr> <tr> <td>Mounting</td> <td>(2) $\Phi 3$(Thru-hole)</td> </tr> </tbody> </table>	Performance	MM182A02	Sensitivity ($\pm 10\%$)	1000 mV/g	Measurement Range	± 2 g	Resolution	4 mg rms	Frequency Range ($\pm 5\%$)	0-200 Hz	Non-linearity	$\leq 1\%$	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	± 3000 g	Temperature Range	-40 ~ +85 °C	Excitation Voltage	+9 ~ +15 VDC	Excitation Current	≤ 5 mA	Size mm	As left figure	Weight	~20 g	Mounting	(2) $\Phi 3$ (Thru-hole)	<table border="1"> <tbody> <tr> <td>Output Impedance</td> <td>$\leq 100 \Omega$</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>	Output Impedance	$\leq 100 \Omega$	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> 
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Accessories	<ol style="list-style-type: none"> 1. Integral cable (5 cores) 1ea 3m 2. Certificate of inspection 1ea 3. M3 stud 2ea 		 <p style="text-align: center;">Metromatics ABN: 47 007 346 287</p> <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>																																				
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