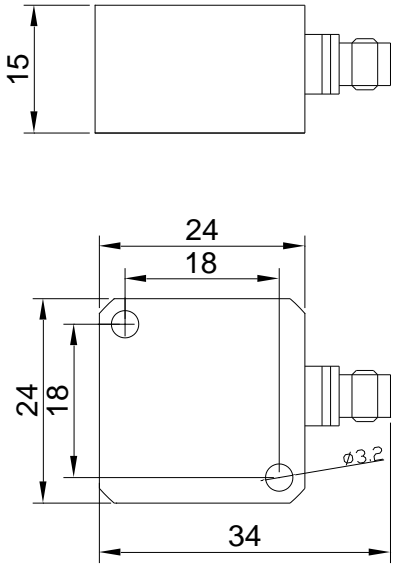




Product Model: MM182A series	MEMS Accelerometer(DC Response)		Version: A Date: 20/06/2024																																				
<p>Uses:</p> <ul style="list-style-type: none"> •Low-frequency, motion and tilt measurements • Flight testing • Road load testing • Transportation • Modal analysis <p>Features:</p> <ul style="list-style-type: none"> • High temperature stability • Hermetically sealed • Low power consumption 	<table border="1"> <thead> <tr> <th>Performance</th> <th>MM182A10P</th> </tr> </thead> <tbody> <tr><td>Sensitivity ($\pm 10\%$)</td><td>200 mV/g</td></tr> <tr><td>Measurement Range</td><td>± 10 g</td></tr> <tr><td>Resolution</td><td>0.5 mg rms</td></tr> <tr><td>Frequency Range(± 1 dB)</td><td>0-400 Hz</td></tr> <tr><td>Non-linearity</td><td>≤ 1 %</td></tr> <tr><td>Transverse Sensitivity</td><td>$\leq 5\%$</td></tr> <tr><td>Overload Limit (Shock)</td><td>± 5000g</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> <tr><td>Output Impedance</td><td>≤ 100 Ω</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	MM182A10P	Sensitivity ($\pm 10\%$)	200 mV/g	Measurement Range	± 10 g	Resolution	0.5 mg rms	Frequency Range(± 1 dB)	0-400 Hz	Non-linearity	≤ 1 %	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	± 5000 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)	Output Impedance	≤ 100 Ω	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> 	 <p style="text-align: center;">Metromatics ABN: 47 007 346 287</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>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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