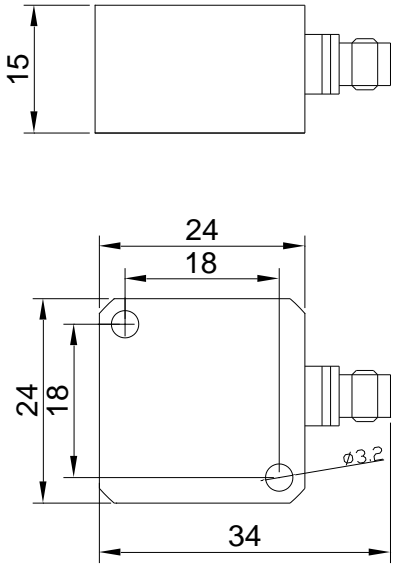




Product Model: MM182A series	MEMS Accelerometer(DC Response)		Version: A Date: 20/06/2024																
<p>Uses:</p> <ul style="list-style-type: none"> •Low-frequency, motion and tilt measurements • Flight testing • Road load testing • Transportation • Modal analysis <p>Features:</p> <ul style="list-style-type: none"> • High temperature stability • Hermetically sealed • Low power consumption 	<table border="1"> <thead> <tr> <th>Performance</th> <th>MM182A50P</th> </tr> </thead> <tbody> <tr> <td>Sensitivity ($\pm 10\%$)</td> <td>40 mV/g</td> </tr> <tr> <td>Measurement Range</td> <td>± 50 g</td> </tr> <tr> <td>Resolution</td> <td>3.5 mg rms</td> </tr> <tr> <td>Frequency Range($\pm 5\%$)</td> <td>0-800 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> </tbody> </table>	Performance	MM182A50P	Sensitivity ($\pm 10\%$)	40 mV/g	Measurement Range	± 50 g	Resolution	3.5 mg rms	Frequency Range($\pm 5\%$)	0-800 Hz	Non-linearity	≤ 1 %	Transverse Sensitivity	$\leq 5\%$	Overload Limit (Shock)	± 5000 g	<p>MM182A50P</p>	<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>
	Performance	MM182A50P																	
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	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 style="text-align: center;">Metromatics</p> <p style="text-align: center;">ABN: 47 007 346 287</p>														
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</p> <p>www.metromatics.com.au sales@metromatics.com.au</p> <p>Brisbane: +61 7 3868 4255 I Sydney: +61 2 9460 4355</p> <p>Melbourne: +61 3 9872 4592</p>																
Remark																			

