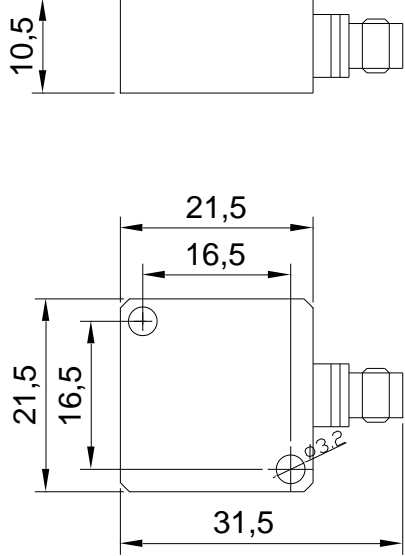




Product Model: <b>MM181A series</b>	<b>MEMS Accelerometer (DC Response)</b>		Version: <b>A</b> Date: <b>19/06/2024</b>
<p>Uses:</p> <ul style="list-style-type: none"> <li>• Low-frequency, motion and tilt measurements</li> <li>• Flight testing</li> <li>• Road load testing</li> <li>• Transportation</li> <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> 	Performance	<b>MM181A50P</b>	<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> 
	Sensitivity ( $\pm 10\%$ )	40 mV/g	
	Measurement Range	$\pm 50$ g	
	Resolution	2.5 mg rms	
	Frequency Range( $\pm 5\%$ )	0-800 Hz	
	Non-linearity	$\leq 1$ %	
	Transverse Sensitivity	$\leq 5\%$	
	Overload Limit (Shock)	$\pm 5000$ g	
	Temperature Range	-40 ~+85 °C	
	Excitation Voltage	+9~+15 VDC	
	Excitation Current	$\leq 5$ mA	
	Size mm	As left figure	
	Weight	~17 g	
	Mounting	(2) $\Phi 3$ (Thru-hole)	
Output Impedance	$\leq 100$ $\Omega$		
Output Connector	Integral Cable		
Housing Material	Titanium		
Sealing	Welded		<p style="text-align: center;"><b>Metromatics</b></p> <p style="text-align: center;">ABN: 47 007 346 287</p>
Accessories	<ol style="list-style-type: none"> <li>1. Integral cable (4 cores) 1ea 3m</li> <li>2. Certificate of inspection 1ea</li> <li>3. M3 stud 2ea</li> </ol>		
Remark			<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>