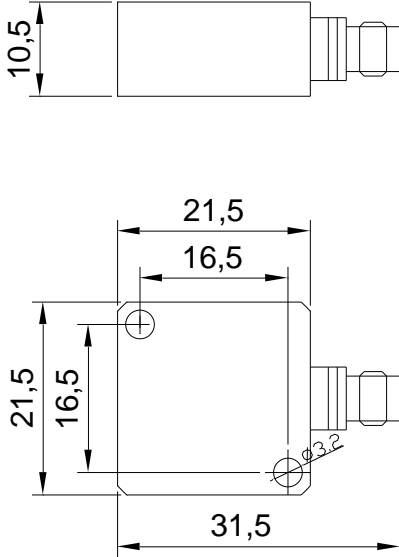




Product Model: MM181A series	MEMS Accelerometer(DC Response)		Version: A Date: 20/2/2023																																		
<p>Uses:</p> <ul style="list-style-type: none"> •Low-frequency, motion and tilt measurements • Flight testing • Road load testing • Transportation • Modal analysis <p>Features:</p> <ul style="list-style-type: none"> • High temperature stability • Hermetically sealed • Low power consumption 	<table border="1"> <thead> <tr> <th>Performance</th> <th>MM181A-02P</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>0.1 mg rms</td> </tr> <tr> <td>Frequency Range(± 1 dB)</td> <td>0-150 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>~17 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> </tbody> </table>	Performance	MM181A-02P	Sensitivity ($\pm 10\%$)	1000 mV/g	Measurement Range	± 2 g	Resolution	0.1 mg rms	Frequency Range(± 1 dB)	0-150 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	~17 g	Mounting	(2) $\Phi 3$ (Thru-hole)	Output Impedance	≤ 100 Ω	Output Connector	Integral Cable	Housing Material	Titanium	<p>MEMS Accelerometer, the DC response accelerometers, is 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 YMC 3832 (signal conditioner). The housing material is titanium.</p> 	
	Performance	MM181A-02P																																			
	Sensitivity ($\pm 10\%$)	1000 mV/g																																			
	Measurement Range	± 2 g																																			
	Resolution	0.1 mg rms																																			
	Frequency Range(± 1 dB)	0-150 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	~17 g																																			
Mounting	(2) $\Phi 3$ (Thru-hole)																																				
Output Impedance	≤ 100 Ω																																				
Output Connector	Integral Cable																																				
Housing Material	Titanium																																				
Accessories	<ol style="list-style-type: none"> 1. Integral cable (4 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 I Adelaide: +61 8 8343 8516</p>																																		
Remark																																					