

1-axis, 3-axis Very Low Frequency Accelerometer **MA301**



Small type



Large type

Specifications

- X, Y, Z-Axis 3CH output
- Offset adjustment
- Integrated power supply
- +5V DC power input & Power LED
- ±4V differential or 0.5V - 4.5V single ended outputs or 4 - 20 mA
- Galvanized isolation
- Responds to DC & AC Acceleration
- ±2g, ±5g, ±10g, ±25g, ±50g, ±100g customized model

Input Range [g]	Frequency Response [Hz, Nominal, 3dB]	Sensitivity [Differential, mV/g]	Output Noise, Differential [RMS, µg/(root Hz)]	Max. Mechanical Shock [g]
±2	0 ~ 400	2000	5	2000
±5	0 ~ 600	800	7	
±10	0 ~ 1000	400	10	
±25	0 ~ 1500	160	25	5000
±50	0 ~ 2000	80	50	
±100	0 ~ 2500	40	100	

PARAMETER	MIN	TYP	MAX	UNITS
Cross Axis Sensitivity		2	3	%
Bias Calibration Error	-002	2	4	% of Span
	-005 thru -400	1	2	
Bias Temperature Shift (Tc=-55 to +125°C)	-002	100	300	(ppm of span)/°C
	-005 thru 400	50	200	
Non-Linearity (-90 to +90% of Full Scale)	-002 thru -050	0.15	0.5	% of span
	-100	0.25	1.0	
	-200	0.40	1.5	
	-400	0.70	2.0	
Power Supply Rejection Ratio		25		dB
Output Impedance		90		Ω
Operating Voltage	4.75	5.0	5.25	Volts
Operating Current (I _{DD} +I _{VR})		8	10	mA

Case Operating Temperature	-55 to +125 °C
Acceleration Over-range	2000g for 0.1 ms
Voltage on V _{DD} to GND	-0.5V to 6.5V
Voltage on Any Pin (except DV) to GND	-0.5V to V _{DD} +0.5V
Voltage on DV to GND	±15V
Power Dissipation	50 mW



Power Supply Unit for 3-axis Accelerometer

- 3CH MEMS sensor signal input (LEMO)
- Typical input: ±2g, 2000mV/g, 0~400Hz range
- 3CH signal output (BNC, ±5V)
- Differential amplifier (x1.25 gain)
- 1g offset adjustment
- DC 9~12V or 9V battery power input
- Power switch & Power LED (low battery alert)
- OKW A9406352 case + aluminum panel



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