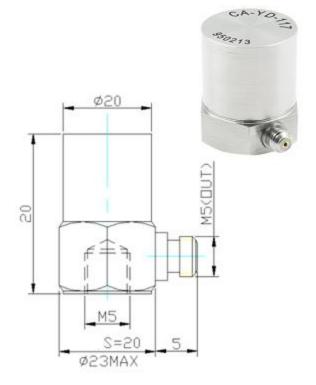


Piezoelectric Accelerometer with Charge Output (low Frequency / High Sensitivity)

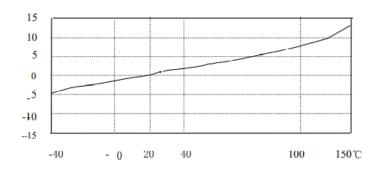
Model: CA-YD-117

Specifications:

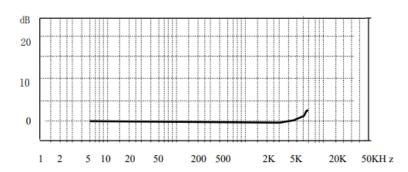
Axial Sensitivity (20±5°C)500 pC/gMeasurement Range (Peak Value)150 gTransverse Sensitivity≤ 5%Frequency Response (±5%)0.3~3000 HzMounting Resonance Frequency10 kHzOperation Temp. Range-40~+150 °CTemperature ResponseRefer to Temp. CurveTemperature Coefficient3 mg/°C(0.3Hz)Magnetic Sensitivity1 g/T (50Hz, 0.03T)Base Strain Sensitivity0.2 mg/μεInsulation Resistance≥10° ΩCapacitance~2000 pFMounting MethodM5Sensing ElementPZT-5Sensing GeometryShearCase MaterialStainless SteelWeight59 gOutput TypeL5 (side)GroundingSignal Ground Connected to CaseM5 Stud, Protection CapIncludedLow Noise Cable to BNCIncludedCalibration CertificateIncluded		
Value)150 gTransverse Sensitivity≤ 5%Frequency Response (±5%)0.3~3000 HzMounting Resonance Frequency10 kHzOperation Temp. Range-40~+150 °CTemperature ResponseRefer to Temp. CurveTemperature Coefficient3 mg/°C(0.3Hz)Magnetic Sensitivity1 g/T (50Hz, 0.03T)Base Strain Sensitivity0.2 mg/μεInsulation Resistance≥10° ΩCapacitance~2000 pFMounting MethodM5Sensing ElementPZT-5Sensing GeometryShearCase MaterialStainless SteelWeight59 gOutput TypeL5 (side)GroundingSignal Ground Connected to CaseM5 Stud, Protection CapIncludedLow Noise Cable to BNCIncluded	,	500 pC/g
Frequency Response $(\pm 5\%)$ 0.3~3000 Hz Mounting Resonance Frequency 10 kHz Operation Temp. Range -40~+150 °C Temperature Response Refer to Temp. Curve Temperature Coefficient 3 mg/°C(0.3Hz) Magnetic Sensitivity 1 g/T (50Hz, 0.03T) Base Strain Sensitivity 0.2 mg/ $\mu\epsilon$ Insulation Resistance $\approx 10^9 \Omega$ Capacitance $\approx 2000 \mathrm{pF}$ Mounting Method M5 Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included		150 g
(±5%)0.3~3000 HzMounting Resonance Frequency10 kHzOperation Temp. Range-40~+150 °CTemperature ResponseRefer to Temp. CurveTemperature Coefficient3 mg/°C(0.3Hz)Magnetic Sensitivity1 g/T (50Hz, 0.03T)Base Strain Sensitivity0.2 mg/μεInsulation Resistance≥10° ΩCapacitance~2000 pFMounting MethodM5Sensing ElementPZT-5Sensing GeometryShearCase MaterialStainless SteelWeight59 gOutput TypeL5 (side)GroundingSignal Ground Connected to CaseM5 Stud, Protection CapIncludedLow Noise Cable to BNCIncluded	Transverse Sensitivity	≤ 5%
Operation Temp. Range-40~+150 °CTemperature ResponseRefer to Temp. CurveTemperature Coefficient3 mg/°C(0.3Hz)Magnetic Sensitivity1 g/T (50Hz, 0.03T)Base Strain Sensitivity0.2 mg/μεInsulation Resistance≥10° ΩCapacitance~2000 pFMounting MethodM5Sensing ElementPZT-5Sensing GeometryShearCase MaterialStainless SteelWeight59 gOutput TypeL5 (side)GroundingSignal Ground Connected to CaseM5 Stud, Protection CapIncludedLow Noise Cable to BNCIncluded		0.3~3000 Hz
Temperature Response Refer to Temp. Curve Temperature Coefficient 3 mg/°C(0.3Hz) Magnetic Sensitivity 1 g/T (50Hz, 0.03T) Base Strain Sensitivity 0.2 mg/με Insulation Resistance ≥10° Ω Capacitance ~2000 pF Mounting Method M5 Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Mounting Resonance Frequency	10 kHz
Temperature Response Temperature Coefficient A mg/°C(0.3Hz) Magnetic Sensitivity Description Base Strain Sensitivity Insulation Resistance Capacitance Capacitance Capacitance Capacitance M5 Sensing Element PZT-5 Sensing Geometry Case Material Weight Curve 1 g/T (50Hz, 0.03T) 0.2 mg/με 2000 pF M5 M5 Sensing Flement PZT-5 Sensing Steel Stainless Steel Veight Stainless Steel Veight Signal Ground Connected to Case M5 Stud, Protection Cap Low Noise Cable to BNC Included	Operation Temp. Range	-40∼+150 °C
Magnetic Sensitivity 1 g/T (50Hz, 0.03T) Base Strain Sensitivity 0.2 mg/με Insulation Resistance $≥10^9 Ω$ Capacitance $~2000 pF$ Mounting Method M5 Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Temperature Response	•
Base Strain Sensitivity 0.2 mg/με Insulation Resistance $\geqslant 10^9 \Omega$ Capacitance $\sim 2000 \text{ pF}$ Mounting Method M5 Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Temperature Coefficient	3 mg/°C(0.3Hz)
Insulation Resistance ≥10° Ω Capacitance ~2000 pF Mounting Method M5 Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Magnetic Sensitivity	1 g/T (50Hz, 0.03T)
Capacitance ~2000 pF Mounting Method M5 Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Base Strain Sensitivity	0.2 mg/με
Mounting Method Sensing Element PZT-5 Sensing Geometry Case Material Weight Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Low Noise Cable to BNC Included	Insulation Resistance	≥10 ⁹ Ω
Sensing Element PZT-5 Sensing Geometry Shear Case Material Stainless Steel Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Low Noise Cable to BNC Included	Capacitance	~2000 pF
Sensing Geometry Case Material Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Low Noise Cable to BNC Included	Mounting Method	M5
Case Material Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Low Noise Cable to BNC Included	Sensing Element	PZT-5
Weight 59 g Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Sensing Geometry	Shear
Output Type L5 (side) Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Case Material	Stainless Steel
Grounding Signal Ground Connected to Case M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Weight	59 g
M5 Stud, Protection Cap Included Low Noise Cable to BNC Included	Output Type	L5 (side)
Low Noise Cable to BNC Included	Grounding	
	M5 Stud, Protection Cap	Included
Calibration Certificate Included		
	Calibration Certificate	Included



Schematic diagram



Typical Temperature Response Curve



Typical Frequency Response Curve

