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Data Sheet

August 15, 2026

AMPHENOL / PCB PIEZOTRONICS

Amphenol / PCB Piezotronics 301A11 Calibration ICP Accelerometer

PCB Piezotronics 301A11 ICP Calibration Reference Accelerometer 100 mV/g The 301A11 is a quartz shear ICP calibration reference accelerometer. OEM PCB model page lists sensitivity 100 mV/g plus or minus 2.0 percent (10.2 mV per m/s²), range plus or minus 50 g pk (plus or minus 490 m/s²), frequency plus or minus 5 percent 0.5 to 10 kHz, plus or minus 10 percent 0.3 to 14 kHz, plus or minus 3 dB 0.2 to 20 kHz, resonance greater than or equal to 35 kHz, broadband resolution 0.004 g rms, non-linearity less than or equal to 1 percent, transverse less than or equal to 3 percent, overload plus or minus 5000 g pk, minus 65 to 250 F (minus 54 to 121 C), output bias 11-17 VDC, discharge 2.0-5.0 s, settling less than 12 s to 10 percent of bias, height 1.5 in (38.1 mm), hex 1-3/16 in (30.2 mm), 6.2 oz (176 g), 316L stainless, 10-32 side jack, 1/4-28 female shaker mount, 10-32 female UUT mount. The 301A11 is a quartz shear ICP calibration reference accelerometer. OEM PCB model page lists sensitivity 100 mV/g plus or minus 2.0 percent (10.2 mV per m/s²), range plus or minus 50 g pk (plus or minus 490 m/s²), frequency plus or minus 5 percent 0.5 to 10 kHz, plus or minus 10 percent 0.3 to 14 kHz, plus or minus 3 dB 0.2 to 20 kHz, resonance greater than or equal to 35 kHz, broadband resolution 0.004 g rms, non-linearity less than or equal to 1 percent, transverse less than or equal to 3 percent, o



MODEL

**Amphenol / PCB
Piezotronics
301A11**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

301A11

LISTING

**[https://aumictechlabs.c
om/products/301a11-3/](https://aumictechlabs.com/products/301a11-3/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amphenol/PCB Piezotronics 301A11 is a calibration-grade ICP accelerometer engineered for precision vibration measurement in laboratory and field environments. Built on quartz shear-mode sensing with hermetically welded 316L stainless steel construction, it delivers traceable acceleration data across a broad dynamic range for system validation and transducer calibration workflows.

Technical Specifications

Measurement Performance

Sensitivity: 100 mV/g (10.2 mV/(m/s²)) ±2.0% Measurement range: ±50 g peak (±490 m/s² peak) Frequency response: 0.5 to 10,000 Hz (±5%), 0.3 to 14,000 Hz (±10%), 0.2 to 20,000 Hz (±3 dB) Resonant frequency: ≥35 kHz Non-linearity: ≤1% (zero-based, least-squares method) Transverse sensitivity: ≤3% Broadband resolution: 0.004 g rms (0.039 m/s² rms) Overload limit: ±5000 g peak (±49,050 m/s² peak)

Electrical Characteristics

Excitation: 23–30 VDC, 2–20 mA constant current Output impedance: <100 Ω Output bias: 11–17 VDC Discharge time constant: 2.0–5.0 seconds Settling time (within 10% bias): <12.0 seconds Spectral noise: 65 µg/√Hz @ 10 Hz, 20 µg/√Hz @ 100 Hz, 15 µg/√Hz @ 1 kHz Environmental Operating temperature: –65 to 250 °F (–54 to 121 °C)

Key Features

Quartz shear-element design for stability and repeatability Hermetic welding eliminates moisture ingress Low output impedance supports long cable runs Selectable mounting threads accommodate shaker tables and test articles Compact hex package: 1 3/16 in × 1 1/2 in (30.2 mm × 38.1 mm); 6.2 oz (176 g)

Typical Applications

Accelerometer calibration and traceability verification Vibration transducer reference standard Shaker table system characterization Laboratory shock and vibration testing

Compatibility & Integration

Connector: 10-32 coaxial jack (side-mounted) Shaker mounting: 1/4-28 female thread (2–5 ft·lbf torque) Unit-under-test mounting: 10-32 female thread (10–20 in·lbf torque) M3 × 0.50 thread adapter option (4–5 in·lbf torque)

301A11 Characteristics / Specifications

PARAMETER	VALUE
Model	301A11
Instrument Type	ICP calibration reference accelerometer
Family	PCB Piezotronics 301A quartz calibration
Sensitivity	100 mV/g plus or minus 2.0 percent (10.2 mV per m/s2)
Measurement Range	plus or minus 50 g pk (plus or minus 490 m/s2 pk)
Frequency Five Pct	0.5 to 10000 Hz plus or minus 5 percent
Frequency Ten Pct	0.3 to 14000 Hz plus or minus 10 percent
Frequency Three Db	0.2 to 20000 Hz plus or minus 3 dB
Resonant Frequency	greater than or equal to 35 kHz
Broadband Resolution	0.004 g rms (0.039 m/s2 rms)
Non Linearity	less than or equal to 1 percent
Transverse Sensitivity	less than or equal to 3 percent
Overload Limit	plus or minus 5000 g pk
Temperature Range	minus 65 F to 250 F (minus 54 C to 121 C)
Output Bias	11 to 17 VDC
Discharge Time	2.0 to 5.0 s
Settling Time	less than 12.0 s to within 10 percent of bias
Sensing Element	quartz shear
Housing	316L stainless steel, hermetic
Height	1.5 in (38.1 mm)
Hex Size	1-3/16 in (30.2 mm)
Mass	6.2 oz (176 g)
Electrical Connector	10-32 coaxial jack, side
Shaker Mount	1/4-28 female
Uut Mount	10-32 female

PARAMETER	VALUE
Manufacturer	PCB Piezotronics / Amphenol
Literature	PCB Piezotronics Model 301A11 specification

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	301A11
Instrument Type	ICP calibration reference accelerometer
Family	PCB Piezotronics 301A quartz calibration
Sensitivity	100 mV/g plus or minus 2.0 percent (10.2 mV per m/s2)
Measurement Range	plus or minus 50 g pk (plus or minus 490 m/s2 pk)
Frequency Five Pct	0.5 to 10000 Hz plus or minus 5 percent
Frequency Ten Pct	0.3 to 14000 Hz plus or minus 10 percent
Frequency Three Db	0.2 to 20000 Hz plus or minus 3 dB
Resonant Frequency	greater than or equal to 35 kHz
Broadband Resolution	0.004 g rms (0.039 m/s2 rms)
Non Linearity	less than or equal to 1 percent
Transverse Sensitivity	less than or equal to 3 percent
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PARAMETER	VALUE
Literature	PCB Piezotronics Model 301A11 specification
Notes From PCB Piezotronics Model 301A11 product specification. Excitation current milliamp window belongs on the calibration certificate / full spec sheet electrical table if not taken from the published summary.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.