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Differential, Lemo® Connector, Low Noise Lock-In Amplifier



#90-643 Differential, Lemo®, Lock-In Amplifier

Stock #90-643 NEW **1 In Stock**

⊖ 1 ⊕ **A\$4,976⁰⁰**

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General

Differential **Type:**

3 ms – 10s **Time Constant:**

Yes **Remote Control:**

2 @ Fast Setting
4 @ Slow Setting **Maximum Acquisition Time (s):**

Note:

Includes:
LEMO® 3-pin connector
Datasheet

Phase Control:

0 - 360° Digital Phase Shifter

Phase Temperature Drift (°/K):

0.01

Physical & Mechanical Properties

Weight (g):

370

Dimensions (mm):

Case Size: 170 x60 x30

Sensor

Dynamic Reserve (dB):

Low Drift Setting: 35
High Dynamic Setting: 55

Electrical

Frequency (Hz):

10 - 45,000

Hardware & Interface Connectivity

Connector:

Lemo®

Power Requirement:

±15 V, 100 mA

Power Supply:

Power Supply Required and Sold Separately.
USA: [#59-180](#)
Europe: [#59-180](#)
Japan: Not Available
Korea: Not Available
China: [#59-180](#)

Environmental & Durability Factors

Operating Temperature (°C):

0 to +60

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Product Details

- Recovers Low-Amplitude, Modulated Signals from Noisy Backgrounds, Significantly Improving Measurement Sensitivity
- Compact Design Shielded for Electromagnetic Interference (EMI)
- Wide Working Frequency Range, 10Hz – 45kHz

Low-Noise Lock-In Amplifiers utilize synchronous detection to selectively amplify and extract weak modulated signals from noise. These amplifiers feature a compact, 170 x60 x30mm form factor and an EMI-shielded design that enables seamless integration into OEM systems or placement close to the signal source for optimal performance. With a broad operating frequency range from 10Hz to 45kHz, they support a wide range of modulation and measurement techniques. Low Noise Lock-In Amplifiers' adjustable phase, sensitivity, and time constants give users precise control to fine-tune measurements for maximum accuracy. These lock-in amplifiers are ideal in applications such as spectroscopy, laser stabilization, optical sensing, and other precision scientific or industrial measurement systems.

Note: Power supply sold separately. Please see specifications for more details.