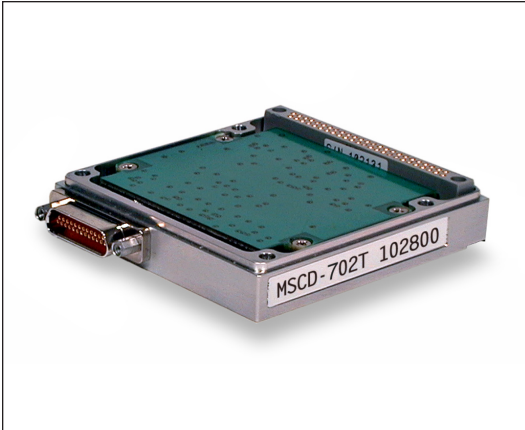


2-Channel Signal Conditioning w/Simultaneous Sample Capability, Thinning Function, Constant Current and Constant Voltage Excitation



Applications

- Flight Test Instrumentation
- Factory Automation & Process Control
- Accelerometers
- Research Measurements and Experiments

Features

- 2-Channels per Module
- Simultaneous Sample Capability
- Thinning Function
- Phase Matching
- Presample Filtering
 - 6-pole Butterworth Filter
 - Factory Set
- 1-pole HPF at 0.36Hz (-3db)
- Fixed Constant Current Excitation
- Programmable Gain and Offset
 - Gains from 1 to 2,000
 - >10,000 Unique Settings
- Active Offset Correction
- Zero and Voltage Substitution Cal
 - Auto Zero/Zero-Cal on Power Up
- >1,000 Megohms Input Impedance (Power On)
- $\pm 0.5\%$ System Accuracy
- $\pm 35\text{VDC}$ Overvoltage Protection
- Windows 95/98/NT/2000 Software Included

Description

The MSCD-702T is a 2-channel plug-in signal conditioning module for use in TTC's MEDAU-2000 and MCDAU-2000 products. The module is intended for applications that require significant signal conditioning flexibility and simultaneous sampling capability. The module provides constant current excitation, presample filtering, calibration, and programmable gain. The module also provides active offset correction. All modules having the same cut-off frequency are phase matched to ± 1.5 degrees up to 0.5fc. The conditioned analog signal is digitized at up to 12-bit resolution for transmission in the system PCM output format.

The MSCD-702T also provides a software programmable "Thinning Function" where the Simultaneous Sample rate can be reduced in binary increments on a per module basis.

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MSCD-702T Datasheet

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Specifications subject to change without notice.



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