Programmable Injector Driver
DI-BOT

Description
Southwest Research Institute’s® programmable injector driver BOT™ (DI-BOT) is an advanced injector driver capable of driving four injectors and two auxiliary loads with fully programmable current waveforms. The auxiliary channels provide the ability to drive devices such as high-pressure fuel metering pumps. Optically isolated inputs allow any controller to actuate advanced injectors.

Features
• Programmable injector currents
• Programmable auxiliary currents
• Programmable boost voltage
• CAN (Controller Area Network) programmability
• 40-pin sealed Deutsch connector
• Test cell and vehicle mountable

Outputs
• Four injector channels
• Two auxiliary channels

Inputs
• Optically isolated inputs
• CAN Programming
• 12 inputs to allow flexible configuration

Injector Configurations
• Boost-peak-hold
• Peak and hold
• 72V maximum boost voltage
• Diesel injectors
• Gasoline direct injectors
• High or low impedance

Custom Configuration
• Custom current profiles
• Low side drive input
• Push-pull input

Each SwRI BOT™ system is highly customizable to meet unique customer needs. The standard configuration in this data sheet is the expandable foundation for your prototyping solution.

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