DELPHI
Automotive Systems

Accident Data Recorder 2 (ADR 2)

New Features:

- This second generation Accident Data Recorder from Delphi Automotive Systems makes significant improvements from the original ADR 1 design by providing:
  - A 40% reduction in weight
  - A 45% reduction in size
  - Improved data resolution
  - A CAN interface
  - (10) External signal inputs
    - (7) General purpose analog
    - (3) General purpose timer
  - An improved internal sensor set that uses a 200 degrees per second angular rate sensor and a 500 g accelerometer, both produced by Delphi Automotive Systems

General Product Description:

- Senses and records key vehicle parameters at 1000 samples per second prior to, during, and after a triggering event

- Records multiple parameters:
  - Wheel speed
  - Throttle position
  - Steering angle
  - Lap indicator
  - X-Axis acceleration
  - Y-Axis acceleration
  - Z-Axis acceleration
  - Yaw rate
  - Internal real time clock
  - 7 General purpose analog inputs
  - 3 General purpose timer inputs

- Stores parameter data in memory to be retrieved later via a high speed data link to a PC

- Includes a comprehensive suite of Windows™ compatible data analysis software

- Features a highly rugged design for motorsports applications

- Features an internal uninterruptible power supply that allows the ADR 2 to operate in the event of vehicle power loss

Additional Key Technical Statistics:

- Dimensions: 135 mm x 116 mm x 53 mm, 5.3” x 4.6” x 2.1”
- Weight: 1.03 kg, 2.27 lbs.
- Voltage range: 6.5 to 20 Volts
- Temperature rating: Up to 70 degrees Celsius, 158 Fahrenheit
- Microprocessor: 32 bit, 25 MHz
- Program memory 512kB Flash EPROM
- Logging memory: 2mB
- 4 serial data links:
  - RS 232, 9600 baud
  - RS 422, 115 kbaud
  - RS 422, 921 kbaud
  - CAN, 1 Mbit
- Internal sensor set:
  - (3) 500 g accelerometers
  - (3) 50 g accelerometers
  - (1) 200 degree per second angular rate sensor
- High g accelerometer resolution: 0.25g (12 bit)
- Low g accelerometer resolution: 0.025 g (12 bit)
- Angular rate sensor resolution: 0.1 degrees per second (12 bit)
- Case: Aluminum 6061-T651, Anodized black per MIL-A-8625

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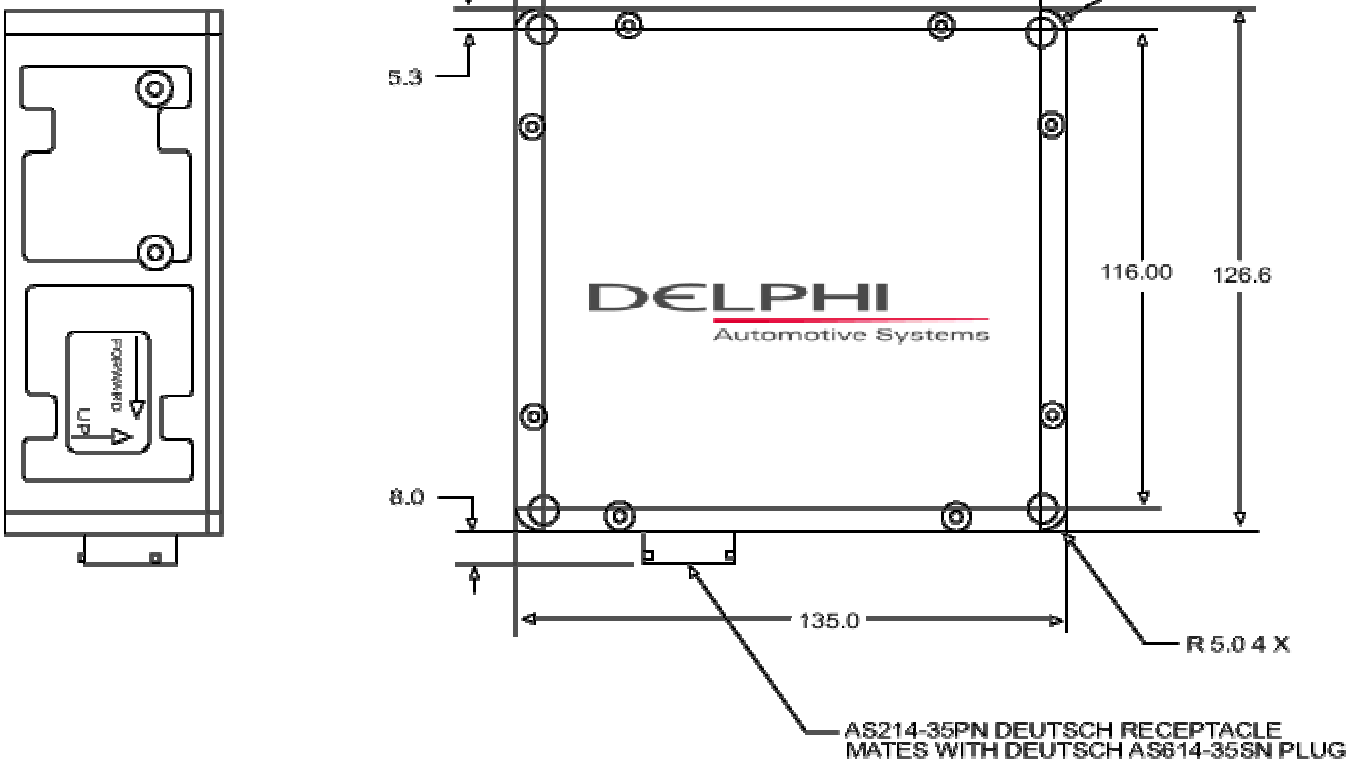
Package Dimensions



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Package Dimensions (cont.)