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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

| | |
|----------------------------|---|
| Product Status | Active |
| Core Processor | dsPIC |
| Core Size | 16-Bit |
| Speed | 40 MIPs |
| Connectivity | I ² C, IrDA, LINbus, SPI, UART/USART |
| Peripherals | Brown-out Detect/Reset, QEI, POR, PWM, WDT |
| Number of I/O | 74 |
| Program Memory Size | 32KB (32K x 8) |
| Program Memory Type | FLASH |
| EEPROM Size | - |
| RAM Size | 4K x 8 |
| Voltage - Supply (Vcc/Vdd) | 3V ~ 3.6V |
| Data Converters | A/D 18x10b; D/A 1x10b |
| Oscillator Type | Internal |
| Operating Temperature | -40°C ~ 85°C (TA) |
| Mounting Type | Surface Mount |
| Package / Case | 80-TQFP |
| Supplier Device Package | 80-TQFP (12x12) |
| Purchase URL | https://www.e-xfl.com/product-detail/microchip-technology/dspic33fj32gs608t-i-pt |

Honeywell Sensing and Control



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3100U 00031457

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Actual product appearance may vary.

3100 Series Hermetic Thermostats

Features

Hermetically sealed
Tight tolerances
Tight differentials

Potential Applications

Computers
Medical electronics
Power supplies
Industrial controls
Test equipment
Infotech

Description

The 3100 Series consists of a single pole, single throw switch activated by a snap-action bimetal disc. Temperature calibrations are pre-set at the factory and each unit is 100% thermally and mechanically inspected. It is available to open or close on temperature rise. The case is laser welded to form a hermetically-sealed steel housing with a glass-to-metal seal at the terminal junction. It is manufactured and tested to meet or exceed critical commercial and industrial specifications.

Supporting Documentation

None Available

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| Product Specifications | |
|------------------------------|---|
| Functional Properties | Close on rise |
| Reset Type | Automatic |
| Amperage | 3 A resistive max. |
| Voltage | 120 Vac |
| Operating Temperature | -29 °C to 260 °C [-20 °F to 500 °F] |
| Environmental Exposure Range | -62 °C to 288 °C [-80 °F to 550 °F] |
| Open Temperature | 26.7 °C [80 °F] |
| Close Temperature | 37.8 °C [100 °F] |
| Open Tolerance | 2.8 °C [5 °F] |
| Close Tolerance | 2.8 °C [5 °F] |
| Dielectric Strength | MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case |
| Insulation Resistance | MIL-STD-202, Method 302; 50 MOhm |

| | |
|--------------------------------|---|
| Contact Resistance | MIL-STD-202, Method 307; 0.050 Ohm max. |
| Hermetic Seal | MIL-STD-202, Method 112; Cond. 1x10 ⁻⁵ |
| Moisture Resistance | MIL-STD-202, Method 106 |
| Housing Material | Steel housing hermetically sealed with glass-to-metal seal at terminal junction |
| Contact Material | Silver |
| Agency Approvals and Standards | UL |
| Mounting | B209 fixed bracket |
| Series Name | 3100U |

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