

Features

- Precision supply-voltage monitor
 - 4.63V (PT7M78xxL)
 - 4.38V (PT7M78xxM)
 - 3.08V (PT7M78xxT)
 - 2.93V (PT7M78xxS)
 - 2.63V (PT7M78xxR)
 - 2.32V (PT7M78xxZ)
 - 2.20V (PT7M78xxY)
 - 4.00V (PT7M78xxJ)
 - 2.25V (PT7M78xxK)
 - 2.80V (PT7M78xxG)
- 200ms reset pulse width
- Debounced CMOS-compatible manual-reset input (7811, 7812, 7823, 7825)
- Reset Output Signal for Watchdog and Power Abnormal, Manual Reset
- Reset Push-Pull output (PT7M7809,7811,7823, 7824,7825)
- Reset Open-Drain output (PT7M7803)
- Voltage monitor for power-fail or low battery warning
- Guaranteed $\overline{\text{RESET}}/\text{RESET}$ valid at $V_{CC}=1.0V$

Description

The PT7M78xx family microprocessor (μP) supervisory circuits are targeted to improve reliability and accuracy of power-supply circuitry in μP systems. These devices reduce the complexity and number of components required to monitor power-supply and battery functions.

The main functions are:

1. Asserting reset output during power-up, power-down and brownout conditions for μP system.
2. Watchdog functions
3. Manual reset.

Applications

- Power-supply circuitry in μP systems
- Networking
- Security System
- Server/Storage
- Embedded System

Function Comparison Table

| | Part No. | $\overline{\text{RESET}}$ output | | RESET output (push-pull) | Manual Reset Input | Watchdog Input |
|---|----------|----------------------------------|------------|--------------------------|--------------------|----------------|
| | | Push-Pull | Open-Drain | | | |
| 1 | PT7M7803 | - | √ | - | - | - |
| 2 | PT7M7809 | √ | - | - | - | - |
| 3 | PT7M7810 | - | - | √ | - | - |
| 4 | PT7M7811 | √ | - | - | √ | - |
| 5 | PT7M7812 | - | - | √ | √ | - |
| 6 | PT7M7823 | √ | - | - | √ | √ |
| 7 | PT7M7824 | √ | - | √ | - | √ |
| 8 | PT7M7825 | √ | - | √ | √ | - |

Pin Configuration



Pin Description

| Pin | Type | Description |
|---------------------------|-------|---|
| $\overline{\text{MR}}$ | I | Manual-Reset: (CMOS). Active low. Pull low to force a reset. Reset remains asserted for the duration of the Reset Timeout Period after $\overline{\text{MR}}$ transitions from low to high. Leave unconnected or connected to VCC if not used. |
| VCC | Power | Supply Voltage. Reset is asserted when V _{CC} drops below the Reset Threshold Voltage (V _{RST}). Reset remains asserted until V _{CC} rises above V _{RST} and keep asserted for the duration of the Reset Timeout Period (t _{RS}) once V _{CC} rises above V _{RST} . |
| GND | - | Ground Reference for all signals. |
| WDI | I | Watchdog Input (CMOS). If WDI remains high or low for the duration of the watchdog timeout period (t _{WD}), the internal watchdog timer trigger a reset output. Floating WDI or connecting WDI to a high-impedance three-state buffer disables the watchdog feature. The internal watchdog timer clears whenever reset is asserted or WDI occurs a rising or falling edge. |
| $\overline{\text{RESET}}$ | O | Active-Low Reset Output (Push-Pull or Open-Drain). It goes low when Vcc is below the reset threshold. It remains low for about 200ms after one of the following occurs: Vcc rises above the reset threshold (VRST), the watchdog triggers a reset, or MR goes from low to high. |
| RESET | O | The inverse of $\overline{\text{RESET}}$, active high. Whenever $\overline{\text{RESET}}$ is high, RESET is low. |
| NC | - | No connection. |

Block Diagram

PT7M7823/24/25 Block Diagram



PT7M7803/09/10/11/12 Block Diagram



Maximum Ratings

| | |
|---|--------------------------------|
| Storage Temperature | -65°C to +150°C |
| Ambient Temperature with Power Applied..... | -40°C to +85°C |
| Supply Voltage to Ground Potential (V _{CC} to GND) | -0.3V to +7.0V |
| DC Input Voltage (All inputs except V _{CC} and GND)..... | -0.3V to V _{CC} +0.3V |
| Open-drain RESET | -0.3V to +7.0V |
| DC Output Current (All outputs) | 20mA |
| Power Dissipation | 320mW (Depend on package) |

Note:

Stresses greater than those listed under MAXIMUM RATINGS may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

Recommended Operation Conditions

| Sym | Description | Test Conditions | Min. | Typ. | Max. | Unit |
|-----------------|---|-----------------|--------------------|------|--------------------|------|
| V _{CC} | Supply Voltage for 78xxL/M/J | - | 4.5 | 5.0 | 5.5 | V |
| | Supply Voltage for 78xxT/S | - | 3.0 | 3.3 | 5.5 | V |
| | Supply Voltage for 78xxR/Z/Y/K/G | - | 2.7 | 3.0 | 5.5 | V |
| V _{IH} | Input High Voltage (WDI, MR) | - | 0.7V _{CC} | - | V _{CC} | V |
| | Input High Voltage for Open-drain RESET | - | 0 | -- | 5.5 | V |
| V _{IL} | Input Low Voltage | - | - | - | 0.3V _{CC} | V |
| T _A | Operating Temperature | - | -40 | - | 85 | °C |

DC Electrical Characteristics

($V_{CC} = V_{RN} + 5\%$ to 5.5V, $T_A = -40 \sim 85\text{ }^\circ\text{C}$, unless otherwise noted.)(Note 1)

| Symbol | Description | Test Conditions | | Min. | Typ. | Max. | Unit |
|--------------|--|---|------------------------|------------------|----------|------------------|---------------|
| V_{CC} | Operating Voltage Range | - | | 1.0 | - | 5.5 | V |
| I_{CC} | Supply Current | $V_{CC} = 5V$, No load | 7803/09/10/11/12 | - | 10 | 30 | μA |
| | | | 7823/24/25 | - | 13 | 36 | |
| V_{IH} | Input High Voltage | Pin: $\overline{\text{MR}}$, WDI | | $0.7V_{CC}$ | - | V_{CC} | V |
| V_{IL} | Input Low Voltage | Pin: $\overline{\text{MR}}$, WDI | | - | - | $0.3V_{CC}$ | V |
| V_{RST} | Threshold Voltage(Falling-edge)(Note 2) | $T_A = 25\text{ }^\circ\text{C}$ $T_A = -40 \sim 85\text{ }^\circ\text{C}$ | 78xx | $V_{RN} - 1.5\%$ | V_{RN} | $V_{RN} + 1.5\%$ | V |
| | | | | $V_{RN} - 2.5\%$ | V_{RN} | $V_{RN} + 2.5\%$ | |
| V_{RTH} | Reset Threshold Hysteresis (Note 2) | V_{CC} varies between $V_{RN} \pm 5\%$ | 7823/24/25L/M | - | 12 | - | mV |
| | | | 7823/24/25 T/S/R/K/Z/Y | - | 4 | - | |
| | | | Others | - | 50 | - | |
| | | | | | | | |
| V_{OH} | Output High Voltage(Except 7823/24/25) | $V_{CC} \geq 4.5V$ $I_{source} = 800\text{ }\mu\text{A}$ | $V_{CC} - 1.5$ | - | - | V | |
| | | $V_{CC} \geq 2.7V$ $I_{source} = 500\text{ }\mu\text{A}$ | $0.8 \times V_{CC}$ | - | - | | |
| | | $V_{CC} \geq 1.8V$ $I_{source} = 150\text{ }\mu\text{A}$ | $0.8 \times V_{CC}$ | - | - | | |
| | | $V_{CC} \geq 1.0V$ $I_{source} = 4\text{ }\mu\text{A}$ | $0.8 \times V_{CC}$ | - | - | | |
| | Output High Voltage(7823/24/25) | 7823/24/25L/M, $V_{CC} = V_{RST}$ $I_{source} = 120\text{ }\mu\text{A}$ | $V_{CC} - 1.5$ | - | - | V | |
| | | 7823/24/25T/S/R/K, $V_{CC} = V_{RST}$ $I_{source} = 30\text{ }\mu\text{A}$ | $0.8 \times V_{CC}$ | - | - | V | |
| V_{OL} | Output Low Voltage | $V_{CC} \geq 4.5V$ $I_{sink} = 3.2\text{ mA}$ | - | - | 0.4 | V | |
| | | $V_{CC} \geq 2.7V$ $I_{sink} = 1.2\text{ mA}$ | - | - | 0.3 | | |
| | | $V_{CC} \geq 1.0V$ $I_{sink} = 100\text{ }\mu\text{A}$ | - | - | 0.3 | | |
| I_{LKG} | Open-Drain Output Leakage Current | $V_{CC} > V_{TH(MAX)}$ for 7803 | | - | - | 1 | μA |
| I_{WDI} | Average WDI Input Current (Note 3) | WDI connected to V_{CC} : 5.5V | | - | 120 | 160 | μA |
| | | WDI connected to GND | | -20 | -15 | - | |
| I_{source} | $\overline{\text{RESET}}$ Output Short-Circuit Current (only for PT7M7823/24/25) | PT7M782xL/M, $\overline{\text{RESET}} = 0V$, $V_{CC} = 5.5V$ | | - | - | 800 | μA |
| | | PT7M782xT/S/R/K/Z/Y, $\overline{\text{RESET}} = 0V$, $V_{CC} = 3.6V$ | | - | - | 400 | |
| r | MR pull-up resistor (internal) | PT7M7811/7812 | | 10 | 20 | 40 | k Ω |
| | | PT7M7823/7824/7825 | | 35 | 52 | 75 | |

Note: 1. Parameters of room temperature guaranteed by production test and parameters of full-temperature guaranteed by design.

2. Valid for both $\overline{\text{RESET}}$ and RESET. V_{RST} (V_{RTH-}) is the Reset threshold voltage when V_{CC} from high to low level, and V_{RTH+} is the Reset threshold voltage when V_{CC} from low to high level. V_{RN} is nominal reset threshold voltage.

3. WDI is internally serviced within the watchdog period if WDI is left unconnected.

AC Electrical Characteristics

| Symbol | Description | Test Conditions | Min. | Typ. | Max. | Unit |
|----------|---|---|------|------|------|------|
| t_{RS} | Reset Pulse Width | \overline{MR} from low to High. | 140 | 200 | 400 | ms |
| t_{WD} | Watchdog Timeout Period | WDI, \overline{MR} tied to V_{CC} , $V_{CC} > V_{RN} + 5\%$. | 1.12 | 1.6 | 2.25 | s |
| t_{MR} | \overline{MR} Pulse Width | - | 200 | - | - | ns |
| t_{MD} | \overline{MR} to \overline{RESET} Delay | $V_{CC} = 5V$ | - | - | 250 | ns |
| t_{WP} | WDI Pulse Width | - | 150 | - | - | ns |

Watchdog Timing Diagram



Functional Description

Reset Output

A microprocessor (μP) reset input starts the μP in a known state. Whenever the μP is in an unknown state, it should be held in reset. The supervisory circuits assert reset during power-up and prevent code execution errors during power-down or brownout conditions.

On power-up, once V_{cc} reaches about 1.0V, $\overline{\text{RESET}}$ is a guaranteed logic low of 0.4V or less. As V_{cc} rises, $\overline{\text{RESET}}$ stays low. When V_{cc} rises above the reset threshold, an internal timer releases $\overline{\text{RESET}}$ after about 200ms. $\overline{\text{RESET}}$ pulses low whenever V_{cc} drops below the reset threshold, i.e. brownout condition. If brownout occurs in the middle of a previously initiated reset pulse, the pulse continues for at least another 200ms. On power-down, once V_{cc} falls below the reset threshold, $\overline{\text{RESET}}$ stays low and is guaranteed to be 0.4V or less until V_{cc} drops below 1.0V. Watchdog Timing Diagram shows the timing relationship.

The active-high RESET output is simply the inverse of the $\overline{\text{RESET}}$ output, and is guaranteed to be valid with V_{cc} down to 1.0V.

Watchdog Timer

The PT7M78xx watchdog circuit monitors the μP activity. If the μP does not toggle the watch-dog input (WDI) within 1.6s, reset asserts. As long as reset is asserted or the WDI input is toggled, the watchdog timer will stay clear and will not count. As soon as reset is released, the timer will start counting. WDI input pulses as short as 150ns can be detected.

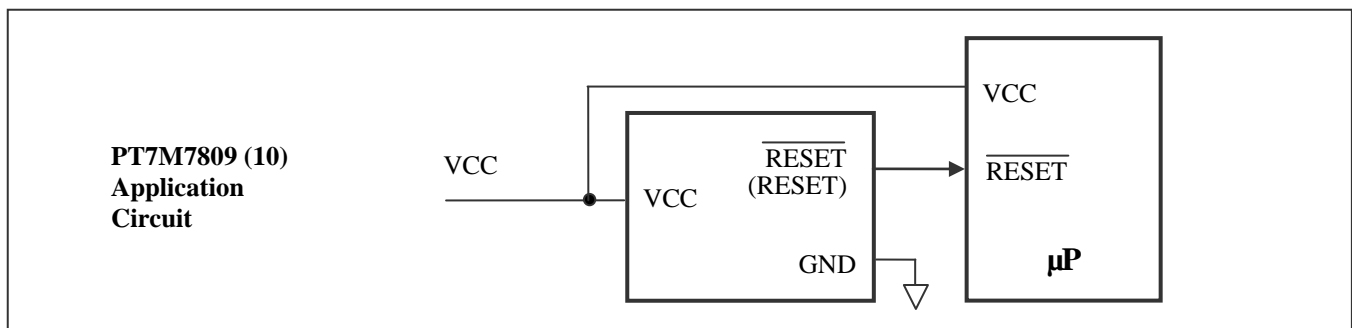
Disable the watchdog function by leaving WDI unconnected or by three-stating driver connected to WDI.

Do not apply voltage level on DCI over V_{cc} .

Manual Reset

The manual-reset input ($\overline{\text{MR}}$) allows reset to be triggered by a push button switch. $\overline{\text{MR}}$ has an internal pullup resistor, so it can be left open when not used. Do not apply voltage level over V_{cc} .

Typical Application Circuit





PT7M7803/7809-7812/7823-7825

Mechanical Information

T (SOT23)

| PKG. DIMENSIONS(MM) | | |
|---------------------|----------|------|
| SYMBOL | Min | Max |
| A | 0.75 | 1.17 |
| A1 | 0.00 | 0.15 |
| A2 | 0.70 | 1.10 |
| b | 0.30 | 0.51 |
| c | 0.08 | 0.20 |
| D | 2.80 | 3.04 |
| E | 1.20 | 1.40 |
| E1 | 2.10 | 2.64 |
| e | 0.95 BSC | |
| e1 | 1.90 BSC | |
| L | 0.30 | 0.60 |
| θ | 0° | 8° |

Notes:
 1. Comply with TO-236H/AA, except A1 Min, A2 Max, b Max and L Min.
 2. PACKAGE OUTLINE DIMENSIONS DO NOT INCLUDE MOLD FLASH AND METAL BURR

| | | |
|--|--|----------------|
| PERICOM Enabling Serial Connectivity | | DATE: 03/29/16 |
| DESCRIPTION: 3-Pin, Small Outline Transistor Plastic Package (SOT23) | | |
| PACKAGE CODE: T (T3) | | |
| DOCUMENT CONTROL#: PD-2142 | | REVISION: A |

16-0079

PT7M7803/7809-7812/7823-7825

C (SC70)

| PKG. DIMENSIONS(MM) | | |
|---------------------|----------|------|
| SYMBOL | Min | Max |
| A | - | 1.10 |
| A1 | 0.00 | 0.10 |
| A2 | 0.70 | 1.00 |
| b | 0.15 | 0.40 |
| c | 0.08 | 0.22 |
| D | 1.80 | 2.20 |
| E | 1.10 | 1.40 |
| E1 | 1.75 | 2.45 |
| e | 0.65 BSC | |
| e1 | 1.30 BSC | |
| L | 0.26 | 0.46 |
| θ | 0° | 8° |

Note:
1. Comply with MO-203C, except b Max, D Min, D Max, E1 Min and E1 Max.
2. PACKAGE OUTLINE DIMENSIONS DO NOT INCLUDE MOLD FLASH AND METAL BURR

PERICOM
Enabling Serial Connectivity

DATE: 03/29/16

DESCRIPTION: 3-Pin, SOT323 (SC70)

PACKAGE CODE: C (C3)

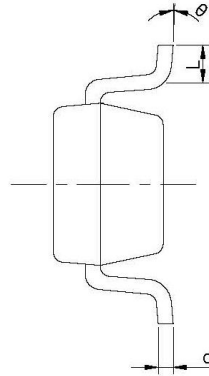
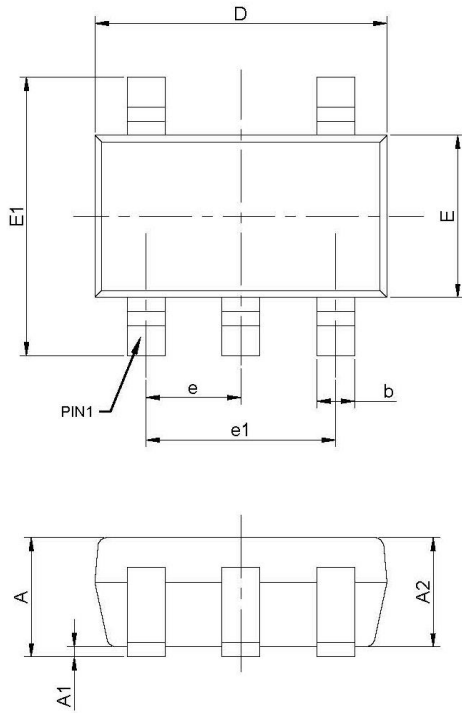
DOCUMENT CONTROL#: PD-2147

REVISION: A

16-0077

PT7M7803/7809-7812/7823-7825

TA (SOT23)



| PKG. DIMENSIONS(MM) | | |
|---------------------|----------|------|
| SYMBOL | Min | Max |
| A | - | 1.45 |
| A1 | 0.00 | 0.15 |
| A2 | 0.90 | 1.30 |
| b | 0.30 | 0.50 |
| c | 0.08 | 0.22 |
| D | 2.75 | 3.05 |
| E | 1.45 | 1.75 |
| E1 | 2.60 | 3.00 |
| e | 0.95 BSC | |
| e1 | 1.90 BSC | |
| L | 0.30 | 0.60 |
| θ | 0° | 8° |

Note:

1. Ref: JEDEC MO-178C/AA
2. PACKAGE OUTLINE DIMENSIONS DO NOT INCLUDE MOLD FLASH AND METAL BUR

| | |
|--|--|
| | DATE: 03/29/16 |
| | DESCRIPTION: 5-Pin, Small Outline Transistor Plastic Package (SOT23) |
| | PACKAGE CODE: TA (TA5) |
| | DOCUMENT CONTROL #: PD-2144 |
| | REVISION: A |

16-0081

PT7M7803/7809-7812/7823-7825

TB (SOT143)

| PKG. DIMENSIONS(MM) | | |
|---------------------|----------|------|
| SYMBOL | Min | Max |
| A | 0.80 | 1.22 |
| A1 | 0.00 | 0.15 |
| A2 | 0.75 | 1.07 |
| b | 0.30 | 0.50 |
| b1 | 0.75 | 0.90 |
| c | 0.08 | 0.20 |
| D | 2.80 | 3.04 |
| d | 0.20 BSC | |
| E | 1.20 | 1.40 |
| E1 | 2.10 | 2.64 |
| e | 1.92 BSC | |
| L | 0.30 | 0.60 |
| θ | 0° | 8° |

Note:
1. Comply with TO-253D/AA, except A1 Min, b1 Min, b1 Max, and L Min.
2. PACKAGE OUTLINE DIMENSIONS DO NOT INCLUDE MOLD FLASH AND METAL BURR

| | |
|--|----------------|
| PERICOM Enabling Serial Connectivity | DATE: 03/29/16 |
| DESCRIPTION: 4-Pin, SOT143 | |
| PACKAGE CODE: TB (TB4) | |
| DOCUMENT CONTROL#: PD-2146 | REVISION: A |

16-0083

Note: For latest package info, please check: <http://www.pericom.com/support/packaging/packaging-mechanicals-and-thermal-characteristics/>

Ordering Information

| Part Number | Package Code | Package |
|---------------|--------------|--|
| PT7M7803XTEX | T | 3-Pin, Small Outline Transistor Plastic (SOT23), Tape & Reel |
| PT7M7809XTEX | T | 3-Pin, Small Outline Transistor Plastic (SOT23), Tape & Reel |
| PT7M7810XTEX | T | 3-Pin, Small Outline Transistor Plastic (SOT23), Tape & Reel |
| PT7M7803XC3EX | C3 | 3-Pin, SOT323 (SC70), Tape & Reel |
| PT7M7809XC3EX | C3 | 3-Pin, SOT323 (SC70), Tape & Reel |
| PT7M7810XC3EX | C3 | 3-Pin, SOT323 (SC70), Tape & Reel |
| PT7M7811XTAEX | TA | 5-Pin, Small Outline Transistor Plastic Package (SOT23), Tape & Reel |
| PT7M7812XTAEX | TA | 5-Pin, Small Outline Transistor Plastic Package (SOT23), Tape & Reel |
| PT7M7823XTAEX | TA | 5-Pin, Small Outline Transistor Plastic Package (SOT23), Tape & Reel |
| PT7M7824XTAEX | TA | 5-Pin, Small Outline Transistor Plastic Package (SOT23), Tape & Reel |
| PT7M7825XTAEX | TA | 5-Pin, Small Outline Transistor Plastic Package (SOT23), Tape & Reel |
| PT7M7811XTBEX | TB | 4-Pin (SOT143), Tape & Reel |
| PT7M7812XTBEX | TB | 4-Pin (SOT143), Tape & Reel |
| *PT7M7809XUWF | UWF | Wafer form |

Note:

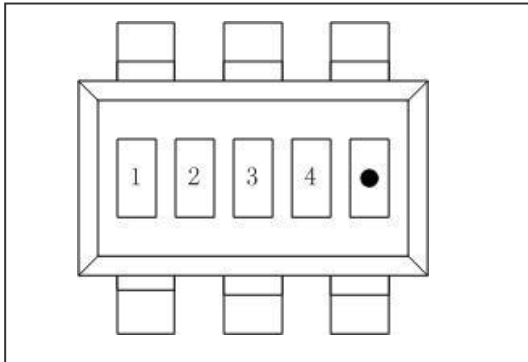
- Thermal characteristics can be found on the company web site at www.pericom.com/packaging/
- E = Pb-free and Green
- Adding X Suffix= Tape/Reel
- “*” for UWF package, please check the storage with related sales.

Suffix: X—Monitored Voltage

| X | L | M | T | S | R | Z | Y | J | K | G |
|---------------------|------|------|------|------|------|------|------|------|------|------|
| Reset Threshold (V) | 4.63 | 4.38 | 3.08 | 2.93 | 2.63 | 2.32 | 2.20 | 4.00 | 2.25 | 2.80 |

PT7M7803/7809-7812/7823-7825

Marking Information



| Code | Description |
|------|--------------------|
| 1 2 | Part Number |
| 3 | Year |
| 4 | Work Week |
| ● | Only for PT7M7809M |

Part Number Code

| Code 1 2 | Part No | Code 1 2 | Part No | Code 1 2 | Part No | Code 1 2 | Part No |
|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| AA | PT7M7809L | AO | PT7M7811L | BC | PT7M7803L | BQ | PT7M7824L |
| AB | PT7M7809M | AP | PT7M7811M | BD | PT7M7803M | BR | PT7M7824M |
| AC | PT7M7809T | AQ | PT7M7811T | BE | PT7M7803T | BS | PT7M7824T |
| AD | PT7M7809S | AR | PT7M7811S | BF | PT7M7803S | BT | PT7M7824S |
| AE | PT7M7809R | AS | PT7M7811R | BG | PT7M7803R | BU | PT7M7824R |
| AF | PT7M7809Z | AT | PT7M7811Z | BH | PT7M7803Z | BV | PT7M7824Z |
| AG | PT7M7809Y | AU | PT7M7811Y | BI | PT7M7803Y | BW | PT7M7824Y |
| jm | PT7M7809J | sf | PT7M7811J | sc | PT7M7803J | si | PT7M7824J |
| pE | PT7M7809G | | | | | mQ | PT7M7824K |
| AH | PT7M7810L | AV | PT7M7812L | BJ | PT7M7823L | BX | PT7M7825L |
| AI | PT7M7810M | AW | PT7M7812M | BK | PT7M7823M | BY | PT7M7825M |
| AJ | PT7M7810T | AX | PT7M7812T | BL | PT7M7823T | BZ | PT7M7825T |
| AK | PT7M7810S | AY | PT7M7812S | BM | PT7M7823S | CA | PT7M7825S |
| AL | PT7M7810R | AZ | PT7M7812R | BN | PT7M7823R | CB | PT7M7825R |
| AM | PT7M7810Z | BA | PT7M7812Z | BO | PT7M7823Z | CC | PT7M7825Z |
| AN | PT7M7810Y | BB | PT7M7812Y | BP | PT7M7823Y | CD | PT7M7825Y |
| se | PT7M7810J | sg | PT7M7812J | sh | PT7M7823J | sj | PT7M7825J |
| | | | | mP | PT7M7823K | | |

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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