

# MC9S08PA16AVTJ :Part Detail

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## General Information

|                                                |                                                |
|------------------------------------------------|------------------------------------------------|
| Part Number                                    | MC9S08PA16AVTJ                                 |
| Description                                    | S08PA 8-bit MCU, S08 core, 16 KB Flash, SOP 20 |
| Product Line                                   | G9TZPT12                                       |
| PTI                                            | MDTK                                           |
| Material Type                                  | Tested Packaged Device                         |
| <a href="#">Life Cycle Description (code)</a>  | PRODUCT RAPID GROWTH                           |
| Status                                         | Active                                         |
| <a href="#">Application/Qualification Tier</a> | 10-YEARS APPLICATION LIFE                      |

## Package Information

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| Package Type and Termination Count         | TSSOP 20                                |
| Package Description and Mechanical Drawing | <a href="#">TSSOP 20 4.4*6.5*1.P.65</a> |
| Device Weight(g)                           | 0.08140                                 |
| Package Material                           | Plastic                                 |
| Mounting Style                             | Surface Mount                           |
| Package Length (nominal)(mm)               | 4.400                                   |
| Package Width (nominal)(mm)                | 6.500                                   |
| Package Thickness (nominal)(mm)            | 1.200                                   |
| Maximum Height Above Board(mm)             | 1.200                                   |
| Tape & Reel                                | No                                      |

## Environmental and Compliance Information

|                                                        |                                                                         |
|--------------------------------------------------------|-------------------------------------------------------------------------|
| <a href="#">Pb-Free</a>                                |                                                                         |
| <a href="#">RoHS Compliant</a>                         |                                                                         |
| <a href="#">Halogen Free</a>                           | Yes                                                                     |
| <a href="#">Material Composition Declaration (MCD)</a> | <a href="#">Download MCD Report</a> <a href="#">Download MCD Report</a> |
| <a href="#">RoHS Certificate of Analysis (CoA)</a>     | <a href="#">Download RoHS CoA Report</a>                                |

|                                         |                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------|
| 2nd Level Interconnect                  | e3                                                                         |
| Moisture Sensitivity Level (MSL)        | 3                                                                          |
| Floor Life                              | 168 HOURS                                                                  |
| Peak Package Body Temperature (PPT)(°C) | 260                                                                        |
| Maximum Time at Peak Temperature (s)    | 40                                                                         |
| Number of Reflow Cycles                 | 3                                                                          |
| REACH SVHC                              | <a href="#">NXP REACH Statement</a>                                        |
| UL94 (plastics flammability test)       | V0;Burning stops within 10 seconds on a vertical specimen;no drips allowed |

Manufacturing Information

|                 |     |
|-----------------|-----|
| Micron Size(μm) | .18 |
|-----------------|-----|

Ordering Information

|                                                           |         |
|-----------------------------------------------------------|---------|
| Minimum Package Quantity (MPQ)                            | 75      |
| MPQ Container                                             | RAIL    |
| Exempt from Minimum Delivery Value                        | Yes     |
| Preferred Order Quantity (POQ)                            | 2250    |
| POQ Container                                             | BOX     |
| Export Control Classification Number (US)                 | 3A991A2 |
| Harmonized Tariff (                                       |         |
| CCATS Document                                            | -       |
| ENC Status                                                | -       |
| Other Trade Compliance Documents                          | -       |
| <a href="#">Budgetary Price excluding tax(US Currency</a> | -       |

|       |  |
|-------|--|
| Order |  |
|-------|--|

Operating Characteristics

|                                              |                                                       |
|----------------------------------------------|-------------------------------------------------------|
| ADC                                          | 10-ch. 12-bit                                         |
| ADC (bit)                                    | 12                                                    |
| ADC (ch)                                     | 10                                                    |
| Additional Features                          | Internal Clock Generator<br>Low Voltage Detect<br>POR |
| Ambient Operating Temperature (Min-Max) (°C) | -40 to 105                                            |
| Bus Frequency (Max) (MHz)                    | 20                                                    |
| Core Type                                    | S08                                                   |

|                                 |            |
|---------------------------------|------------|
| EEPROM (KB)                     | 0.256      |
| GPIOs                           | 18         |
| I2C                             | 1          |
| Internal Flash (KB)             | 16         |
| Internal RAM (KB)               | 2          |
| Operating Frequency (Max) (MHz) | 20         |
| Sample Exception Availability   | N          |
| SPI                             | 1          |
| Supply Voltage (Min-Max) (V)    | 2.7 to 5.5 |

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