

MC9RS08KB8CTG



Part Number: [MC9RS08KB8CTG](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 8BIT 8KB FLASH 16TSSOP

Data sheet:  [MC9RS08KBx Mask Errata](#)  
 [MC9RS08KB\(2,4,8,12\) Series Datasheet](#)  
 [MC9RS08KBx Ref Manual](#)

RoHs Status: Lead free / RoHS Compliant

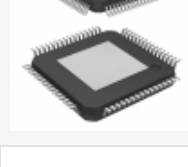
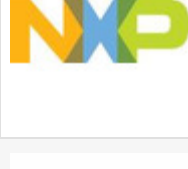
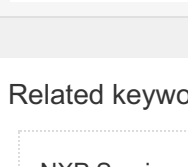
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      |                                  |                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MC9RS08KB8CTG                                                        | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 8BIT 8KB FLASH 16TSSOP                                        | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 56959 pcs                                                            | Data sheet                       | <a href="#">MC9RS08KBx Mask Errata</a><br><a href="#">MC9RS08KB(2,4,8,12) Series Datasheet</a><br><a href="#">MC9RS08KBx Ref Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                            | Voltage - Supply (Vcc/Vdd)       | 1.8 V ~ 5.5 V                                                                                                                           |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16-TSSOP                                                             | Speed                            | 20MHz                                                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RS08                                                                 | RAM Size                         | 254 x 8                                                                                                                                 |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                | Program Memory Size              | 8KB (8K x 8)                                                                                                                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LVD, POR, PWM, WDT                                                   | Packaging                        | Tube                                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16-TSSOP (0.173", 4.40mm Width)                                      | Other Names                      | 935317131574                                                                                                                            |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                             | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                       |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14                                                                   | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                           |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                           | EEPROM Size                      | -                                                                                                                                       |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RS08 RS08 Microcontroller IC 8-Bit 20MHz 8KB (8K x 8) FLASH 16-TSSOP | Data Converters                  | A/D 8x10b                                                                                                                               |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8-Bit                                                                | Core Processor                   | RS08                                                                                                                                    |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | I <sup>2</sup> C, SPI                                                | Base Part Number                 | MC9RS08KB8                                                                                                                              |
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|  | Part#: <a href="#">MC9RS08KB4CTG</a><br>Description: IC MCU 8BIT 4KB FLASH 16TSSOP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9RS08KB2CDC</a><br>Description: IC MCU 8BIT 2KB FLASH 8QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9RS08KB8CWJ</a><br>Description: IC MCU 8BIT 8KB FLASH 20SOIC      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08LA8CLF</a><br>Description: IC MCU 8BIT 8KB FLASH 48LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08KB8CSG</a><br>Description: IC MCU 8BIT 8KB FLASH 16SOIC      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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