

R5F102A7DSP#V0



**Part Number:** [R5F102A7DSP#V0](#)

**Manufacturer:** [Renesas Electronics America](#)

**Description:** IC MCU 16BIT 4KB FLASH 30LSSOP

**Data sheet:**  [RL78/G12 Datasheet](#)

**RoHs Status:** Lead free / RoHS Compliant

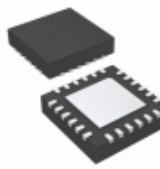
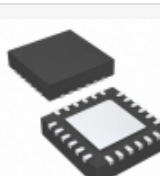
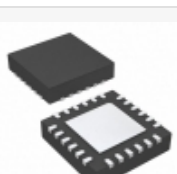
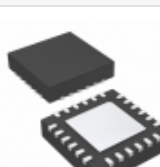
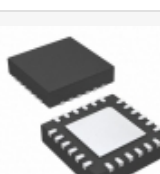
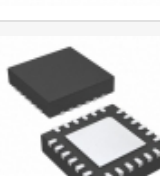
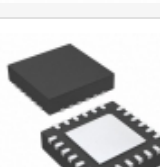
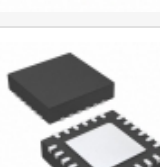
**Ship From:** Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                |                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|---------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F102A7DSP#V0                            | Manufacturer                   | <a href="#">Renesas Electronics America</a>                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 16BIT 4KB FLASH 30LSSOP            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 70345 pcs                                 | Data sheet                     | <a href="#">RL78/G12 Datasheet</a>                                        |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.8 V ~ 5.5 V                                                             |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                             | 30-LSSOP                                  | Speed                          | 24MHz                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | RL78/G12                                  | RAM Size                       | 512 x 8                                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                     | Program Memory Size            | 4KB (4K x 8)                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, POR, PWM, WDT                        | Packaging                      | Tray                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 30-LSSOP (0.240", 6.10mm Width)           | Oscillator Type                | Internal                                                                  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                         | Number of I/O                  | 26                                                                        |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                         | 2K x 8                                    | Detailed Description           | RL78 RL78/G12 Microcontroller IC 16-Bit 24MHz 4KB (4K x 8) FLASH 30-LSSOP |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                     | A/D 8x8/10b                               | Core Size                      | 16-Bit                                                                    |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                      | RL78                                      | Connectivity                   | CSI, I <sup>2</sup> C, UART/USART                                         |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | R5F102A                                   |                                |                                                                           |
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|  | Part#: <a href="#">R5F102A8GSP#V0</a><br>Description: IC MCU 16BIT 8KB FLASH 30LSSOP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F102A7DSP#X0</a><br>Description: IC MCU 16BIT 4KB FLASH 30LSSOP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R5F102A9ASP#V0</a><br>Description: IC MCU 16BIT 12KB FLASH 30LSSOP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F102A7GSP#V0</a><br>Description: RL78/G12 4K+2K 30SSP -40 TO +105 | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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