



### **R5F100FHDFP#50 Information**

Heisener.com

Part Number R5F100FHDFP#50

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 16BIT 192KB FLASH 44LQFP

Package 44-LQFP

For the pricing/inventory/lead time, please contact

us

For Reference Only

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## **R5F100FHDFP#50 Specifications**

| Manufacturer Part Number         R5F100FHDFP#50           Manufacturer         Renesas Electronics America           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         44-LQFP           Series         RL78/G13           Core Processor         RL78           Core Size         16-Bit           Speed         32MHz           Connectivity         CSI, PC, LINbus, UART/USART           Peripherals         DMA, LVD, POR, PWM, WDT           Number of I/O         31           Program Memory Size         192KB (192K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         16K x 8           Voltage - Supply (Vcc/Vdd)         1.6 V ~ 5.5 V           Data Converters         A/D 10x8/10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         44-LQFP           Supplier Device Package         44-LQFP (10x10)   |                            |   |
|--|----------------------------|---|
| Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         44-LQFP           Series         RL78/G13           Core Processor         RL78           Core Size         16-Bit           Speed         32MHz           Connectivity         CSI, PC, LINbus, UART/USART           Peripherals         DMA, LVD, POR, PWM, WDT           Number of I/O         31           Program Memory Size         192KB (192K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         16K x 8           Voltage - Supply (Vcc/Vdd)         1.6 V ~ 5.5 V           Data Converters         A/D 10x8/10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         44-LQFP  | Manufacturer Part Number   | R5F100FHDFP#50                            |
| Package         44-LQFP           Series         RL78/G13           Core Processor         RL78           Core Size         16-Bit           Speed         32MHz           Connectivity         CSI, PC, LINbus, UART/USART           Peripherals         DMA, LVD, POR, PWM, WDT           Number of I/O         31           Program Memory Size         192KB (192K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         16K x 8           Voltage - Supply (Vcc/Vdd)         1.6 V ~ 5.5 V           Data Converters         A/D 10x8/10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         44-LQFP   | Manufacturer               | Renesas Electronics America               |
| Package         44-LQFP           Series         RL78/G13           Core Processor         RL78           Core Size         16-Bit           Speed         32MHz           Connectivity         CSI, PC, LINbus, UART/USART           Peripherals         DMA, LVD, POR, PWM, WDT           Number of I/O         31           Program Memory Size         192KB (192K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         16K x 8           Voltage - Supply (Vcc/Vdd)         1.6 V ~ 5.5 V           Data Converters         A/D 10x8/10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         44-LQFP   | Category                   | Integrated Circuits (ICs)                 |
| SeriesRL78/G13Core ProcessorRL78Core Size $16$ -BitSpeed $32$ MHzConnectivityCSI, PC, LINbus, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O $31$ Program Memory Size $192$ KB $(192$ K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size $16$ K x 8Voltage - Supply (Vcc/Vdd) $1.6$ V ~ $5.5$ VData Converters $A$ /D $10x$ 8/10bOscillator TypeInternalOperating Temperature $-40^{\circ}$ C ~ $85^{\circ}$ C (TA)Mounting Type-Package / Case $44$ -LQFP  |                            | Embedded - Microcontrollers               |
| Core Processor         RL78           Core Size         16-Bit           Speed         32MHz           Connectivity         CSI, PC, LINbus, UART/USART           Peripherals         DMA, LVD, POR, PWM, WDT           Number of I/O         31           Program Memory Size         192KB (192K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         16K x 8           Voltage - Supply (Vcc/Vdd)         1.6 V ~ 5.5 V           Data Converters         A/D 10x8/10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         44-LQFP   | Package                    | 44-LQFP                                   |
| Core Size         16-Bit           Speed         32MHz           Connectivity         CSI, PC, LINbus, UART/USART           Peripherals         DMA, LVD, POR, PWM, WDT           Number of I/O         31           Program Memory Size         192KB (192K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         16K x 8           Voltage - Supply (Vcc/Vdd)         1.6 V ~ 5.5 V           Data Converters         A/D 10x8/10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         44-LQFP   | Series                     | RL78/G13                                  |
| Speed32MHzConnectivityCSI, IPC, LINbus, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O31Program Memory Size192KB (192K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size16K x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 5.5 VData ConvertersA/D 10x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case44-LQFP  | Core Processor             | RL78                                      |
| Connectivity Peripherals DMA, LVD, POR, PWM, WDT Number of I/O 31 Program Memory Size 192KB (192K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 16K x 8  Voltage - Supply (Vcc/Vdd) 1.6 V ~ 5.5 V Data Converters A/D 10x8/10b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type Package / Case  CSI, I²C, LINbus, UART/USART DMA, LVD, POR, PWM, WDT  31  16 K x 8  192KB (192K x 8)  FLASH FL | Core Size                  | 16-Bit                                    |
| Peripherals  DMA, LVD, POR, PWM, WDT  Number of I/O  31  Program Memory Size  192KB (192K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  16K x 8  Voltage - Supply (Vcc/Vdd)  1.6 V ~ 5.5 V  Data Converters  A/D 10x8/10b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Package / Case  DMA, LVD, POR, PWM, WDT  31  NATIONAL STATE OF THE MEMORY OF  | Speed                      | 32MHz                                     |
| Number of I/O       31         Program Memory Size       192KB (192K x 8)         Program Memory Type       FLASH         EEPROM Size       -         RAM Size       16K x 8         Voltage - Supply (Vcc/Vdd)       1.6 V ~ 5.5 V         Data Converters       A/D 10x8/10b         Oscillator Type       Internal         Operating Temperature       -40°C ~ 85°C (TA)         Mounting Type       -         Package / Case       44-LQFP   | Connectivity               | CSI, I <sup>2</sup> C, LINbus, UART/USART |
| Program Memory Size Program Memory Type FLASH  EEPROM Size - RAM Size 16K x 8  Voltage - Supply (Vcc/Vdd) 1.6 V ~ 5.5 V  Data Converters A/D 10x8/10b  Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA)  Mounting Type Package / Case 192KB (192K x 8)  FLASH   Internal    44-LQFP  | Peripherals                | DMA, LVD, POR, PWM, WDT                   |
| Program Memory Type FLASH  EEPROM Size -  RAM Size 16K x 8  Voltage - Supply (Vcc/Vdd) 1.6 V ~ 5.5 V  Data Converters A/D 10x8/10b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 44-LQFP   | Number of I/O              | 31  |
| EEPROM Size - 16K x 8  Voltage - Supply (Vcc/Vdd) 1.6 V ~ 5.5 V  Data Converters A/D 10x8/10b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type - Package / Case 44-LQFP   | Program Memory Size        | 192KB (192K x 8)                          |
| RAM Size $16K \times 8$ Voltage - Supply (Vcc/Vdd) $1.6 \text{ V} \sim 5.5 \text{ V}$ Data Converters $A/D 10x8/10b$ Oscillator Type $Internal$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C (TA)}$ Mounting Type $-$ Package / Case $44\text{-LQFP}$   | Program Memory Type        | FLASH                                     |
| Voltage - Supply (Vcc/Vdd) $1.6 \text{ V} \sim 5.5 \text{ V}$ Data ConvertersA/D $10x8/10b$ Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting Type-Package / Case $44\text{-LQFP}$   | EEPROM Size                | -   |
| Data ConvertersA/D $10x8/10b$ Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting Type-Package / Case $44\text{-LQFP}$   | RAM Size                   | 16K x 8                                   |
| Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type - Package / Case 44-LQFP  | Voltage - Supply (Vcc/Vdd) | 1.6 V ~ 5.5 V                             |
| Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$ Mounting Type $-$ Package / Case $44\text{-LQFP}$   | Data Converters            | A/D 10x8/10b                              |
| Mounting Type - Package / Case - 44-LQFP   | Oscillator Type            | Internal                                  |
| Package / Case 44-LQFP   | Operating Temperature      | -40°C ~ 85°C (TA)                         |
| -  | Mounting Type              | -   |
| Supplier Device Package 44-LQFP (10x10)  | Package / Case             | 44-LQFP                                   |
|  | Supplier Device Package    | 44-LQFP (10x10)                           |
| Report errors?   |                            | Report errors?                            |

### R5F100FHDFP#50 Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## **R5F100FHDFP#50 Payment Methods**

































If you have any question about R5F100FHDFP#50, please do not hesitate to contact us!

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