



CC2500RGPR Information



For Reference Only

Part Number CC2500RGPR

Manufacturer Texas Instruments

Category RF/IF and RFID

RF Transceiver ICs

Description IC RF TXRX ISM>1GHZ 20-VFQFN

Package 20-VFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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CC2500RGPR Specifications

| Manufacturer Part Number CC2500RGPR Manufacturer Texas Instruments Category RF/IF and RFID RF Transceiver ICs RF Transceiver ICs Package 20-VFQFN Exposed Pad Series - Type TxRx Only RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output IdBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | | |
|---|--------------------------|----------------------|
| Category RF/IF and RFID RF Transceiver ICs Package 20-VFQFN Exposed Pad Series - Type TxRx Only RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature 40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Manufacturer Part Number | CC2500RGPR |
| Package 20-VFQFN Exposed Pad Series - Type TxRx Only RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Manufacturer | Texas Instruments |
| Package 20-VFQFN Exposed Pad Series - Type TxRx Only RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Category | RF/IF and RFID |
| Series - Type TxRx Only RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | | RF Transceiver ICs |
| Type TxRx Only RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Package | 20-VFQFN Exposed Pad |
| RF Family/Standard General ISM > 1GHZ Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Series | - |
| Protocol - Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Туре | TxRx Only |
| Modulation 2FSK, GFSK, MSK, OOK Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | RF Family/Standard | General ISM > 1GHZ |
| Frequency 2.4GHz Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Protocol | - |
| Data Rate (Max) 500kBaud Power - Output 1dBm Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO Voltage - Supply 1.8 V \sim 3.6 V Current - Receiving 13.3mA \sim 19.6mA Current - Transmitting 11.1mA \sim 21.5mA Operating Temperature -40°C \sim 85°C Package / Case 20-VFQFN Exposed Pad | Modulation | 2FSK, GFSK, MSK, OOK |
| Power - Output Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 1dBm -104dBm | Frequency | 2.4GHz |
| Sensitivity -104dBm Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Data Rate (Max) | 500kBaud |
| Memory Size - Serial Interfaces SPI GPIO - Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Power - Output | 1dBm |
| Serial InterfacesSPIGPIO-Voltage - Supply $1.8 \text{ V} \sim 3.6 \text{ V}$ Current - Receiving $13.3\text{mA} \sim 19.6\text{mA}$ Current - Transmitting $11.1\text{mA} \sim 21.5\text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$ | Sensitivity | -104dBm |
| GPIO Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | Memory Size | - |
| Voltage - Supply $1.8 \text{ V} \sim 3.6 \text{ V}$ Current - Receiving $13.3 \text{mA} \sim 19.6 \text{mA}$ Current - Transmitting $11.1 \text{mA} \sim 21.5 \text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$ | Serial Interfaces | SPI |
| Current - Receiving 13.3mA ~ 19.6mA Current - Transmitting 11.1mA ~ 21.5mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad | GPIO | - |
| Current - Transmitting $11.1 \text{mA} \sim 21.5 \text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$ | Voltage - Supply | 1.8 V ~ 3.6 V |
| Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case 20-VFQFN Exposed Pad | Current - Receiving | 13.3mA ~ 19.6mA |
| Package / Case 20-VFQFN Exposed Pad | Current - Transmitting | 11.1mA ~ 21.5mA |
| | Operating Temperature | -40°C ~ 85°C |
| Report errors? | Package / Case | 20-VFQFN Exposed Pad |
| | | Report errors? |

CC2500RGPR 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.

CC2500RGPR Payment Methods



















CC2500RGPR Shipping Methods













If you have any question about CC2500RGPR, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com