

# MC34VR5100A1EPR2 :Part Detail

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## General Information

|  |  |
|--|--|
| Part Number                                    | MC34VR5100A1EPR2   |
| Description                                    | Power Management IC, i.MX7, pre-prog, 4 buck, 6 LDO, 1 boost, QFN 48, Reel |
| Product Line                                   | G32PF300   |
| PTI  | ANPG   |
| 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         | QFN-EP 48                               |
| Package Description and Mechanical Drawing | <a href="#">QFN-EP 48 7*7*0.85 P0.5</a> |
| Device Weight(g)                           | 0.13950                                 |
| Package Length (nominal)(mm)               | 7.000                                   |
| Package Width (nominal)(mm)                | 7.000                                   |
| Package Thickness (nominal)(mm)            | 0.850                                   |
| Tape & Reel                                | Yes                                     |

## Environmental and Compliance Information

|  |   |
|--|---|
| Pb-Free  |   |
| RoHS Compliant   |   |
| Halogen Free   | Yes   |
| <a href="#">Material Composition Declaration (MCD)</a> | <a href="#">Download MCD Report</a> <a href="#">Download MCD Report</a> |
| RoHS Certificate of Analysis (CoA)                     | <a href="#">Download RoHS CoA Report</a>                                |
| <a href="#">2nd Level Interconnect</a>                 | e3  |
| Moisture Sensitivity Level (MSL)                       | 3   |
| Floor Life   | 168 HOURS   |
| <a href="#">Peak Package Body Temperature</a>          | 260   |

(PPT)(°C)

|                                      |  |
|--------------------------------------|--|
| 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) | .13 |
|-----------------|-----|

## Ordering Information

|  |                |
|--|----------------|
| Minimum Package Quantity (MPQ)                             | 4000           |
| MPQ Container  | REEL           |
| Exempt from Minimum Delivery Value                         | Yes            |
| Preferred Order Quantity (POQ)                             | 4000           |
| POQ Container  | BOX            |
| Export Control Classification Number (US)                  | EAR99          |
| Harmonized Tariff (  |                |
| CCATS Document   | -              |
| ENC Status   | -              |
| Other Trade Compliance Documents                           | -              |
| <a href="#">Budgetary Price excluding tax(US Currency)</a> | 1000 @ US each |

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## Operating Characteristics

|  |                          |
|--|--------------------------|
| Additional Features - Power Management       | Coincell<br>RTC          |
| Ambient Operating Temperature (Min-Max) (°C) | -40 to 105               |
| Battery Charger                              | Coin cell                |
| Device Function                              | PMICs for LS1 Processors |
| Interface and Input Control                  | I2C                      |
| MCU Supported                                | LS1024A                  |
| Num. of Linear/LDO Regulators                | 6                        |
| Number of Regulators-Boost Switching         | 1                        |
| Number of Regulators-Buck Switching          | 3                        |

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