**RL78: EXPLANATION OF ORDERABLE PART NUMBERS**

(For part numbers start with R5F)

<table>
<thead>
<tr>
<th>Pin count</th>
<th>ROM Size (KB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0  8  D</td>
<td>38</td>
</tr>
<tr>
<td>1  10  E</td>
<td>40</td>
</tr>
<tr>
<td>2  16  F</td>
<td>44</td>
</tr>
<tr>
<td>3  20  G</td>
<td>48</td>
</tr>
<tr>
<td>4  24  J</td>
<td>52</td>
</tr>
<tr>
<td>7  28  M</td>
<td>80</td>
</tr>
<tr>
<td>9  30  P</td>
<td>100</td>
</tr>
<tr>
<td>A  32  S</td>
<td>128</td>
</tr>
<tr>
<td>B  36  T</td>
<td>144</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product group</th>
<th>Renesas MCU</th>
<th>ROM Type</th>
<th>RL78 Family</th>
<th>#0</th>
<th>#1</th>
<th>#U, #2</th>
<th>#V, #3</th>
<th>#W, #4</th>
<th>#X, #5</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>G13 with DF</td>
<td>OM</td>
<td>B1B</td>
<td>G1H</td>
<td>Full Carton (HWQFN,HVQFN,WFLGA)</td>
<td>-40°C to 85°C</td>
<td>Consumer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01</td>
<td>G13 no DF</td>
<td>ON</td>
<td>B1C</td>
<td>L1A</td>
<td>Full Carton (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)</td>
<td>-40°C to 85°C</td>
<td>Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>G12 with DF</td>
<td>OP</td>
<td>F14</td>
<td>H1D</td>
<td>Tray (HWQFN,HVQFN,VFBGA,VFLGA,WFLGA,FLGA,TFBGA)</td>
<td>-40°C to 105°C</td>
<td>Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>G12 no DF</td>
<td>OR</td>
<td>L12</td>
<td>P1P</td>
<td>Tray, Tube* (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)</td>
<td>-40°C to 125°C</td>
<td>Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>G14</td>
<td>OW</td>
<td>L13</td>
<td>R1R</td>
<td>Embossed Tape (HWQFN,HVQFN,VFBGA,VFLGA,WFLGA,FLGA,TFBGA)</td>
<td>-40°C to 105°C</td>
<td>Automotive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>G11</td>
<td>OY</td>
<td>G10</td>
<td>T1T</td>
<td>Embossed Tape (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)</td>
<td>-40°C to 125°C</td>
<td>Automotive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>G1A</td>
<td>OA</td>
<td>G1D</td>
<td>H1G</td>
<td>Embossed Tape (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)</td>
<td>-40°C to 105°C</td>
<td>Automotive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>G1E</td>
<td>OB</td>
<td>G1F</td>
<td>G13A</td>
<td>Embossed Tape (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)</td>
<td>-40°C to 125°C</td>
<td>Automotive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>G1C USB Host</td>
<td>OC</td>
<td>E1E</td>
<td></td>
<td>Embossed Tape (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)</td>
<td>-40°C to 150°C</td>
<td>Automotive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>G1C USB Peri</td>
<td>OE</td>
<td>G1G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Temperature & Quality Grade**

- **A**: -40°C to 85°C  Consumer
- **D**: -40°C to 85°C  Industrial
- **G**: -40°C to 105°C  Industrial
- **M**: -40°C to 125°C  Industrial
- **J**: -40°C to 85°C  Automotive
- **L**: -40°C to 105°C  Automotive
- **K**: -40°C to 125°C  Automotive
- **Y**: -40°C to 150°C  Automotive

**Packaging, Material (Pb-free)**

- **#0**: Full Carton (HWQFN,HVQFN,WFLGA)
- **#1**: Full Carton (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)
- **#U, #2**: Tray (HWQFN,HVQFN,VFBGA,VFLGA,WFLGA,FLGA,TFBGA)
- **#V, #3**: Tray, Tube* (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)
- **#W, #4**: Embossed Tape (HWQFN,HVQFN,VFBGA,VFLGA,WFLGA,FLGA,TFBGA)
- **#X, #5**: Embossed Tape (SSOP,LSSOP,LQFP,LFQFP,TSSOP,WDFN)

**Bonding wire (Only part of RL78/F1x)**

- **C**: Cu (Copper)

### 1:
For 20-pin RL78/G11, RL78/G12, RL78/G15, RL78/G16, RL78/I1A and RL78/I1D LSSOP products only the package specification is tube.

### 2:
Please contact Renesas sales or agent for details.
## RL78: EXPLANATION OF ORDERABLE PART NUMBERS
(For part numbers start with R7F)

### Renesas MCU
- Type: F: Flash
- Family: RL78

### ROM Size (KB)
- 00G: G23, 23F, F23
- 01G: G24, 24F, F24
- 02G: G22

### Pin Count
- 4: 16, F, 44
- 6: 20, G, 48
- 7: 24, J, 52
- 8: 25, L, 64
- A: 30, M, 80
- B: 32, P, 100
- C: 36, S, 128
- E: 40

### Package, Pin Pitch
- SP: LSSOP 0.65 mm
- FP: LQFP 0.8 mm
- FA: LQFP 0.65 mm
- FB: LFQFP 0.5 mm
- NP: HWQFN 0.5 mm
- LA: WFLGA 0.5 mm
- BG: VFBGA 0.4 mm

### Quality Grade
- Automotive: A
- Industrial: C
- Consumer: D

### Temperature
- 2: -40°C to 85°C
- 3: -40°C to 105°C
- 4: -40°C to 125°C
- 5: -40°C to 150°C

### Bonding Wire
- Only part of RL78/F2x
- Cu (Copper)

### Packaging, Material (Pb-free)
- Trays: LQFP, LSSOP, HWQFN
- Tray (WFLGA)
- Tube*: LSSOP
- Embossed Tape: LQFP, LSSOP, HWQFN
- Embossed Tape (WFLGA)

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# Jan. 2024

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