2.0" QVGA (240RGB x 320) FFS TFT Module

### Features
- Wide Viewing Angle Mode (Wide High-CR Area)
- No Color/Gamma Shift
- Thin LCD Module
- RoHS Compliant

### General Spec

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>20QVF0H</td>
</tr>
<tr>
<td>Number of Pixel</td>
<td>240(RGB) x 320, RGB Vertical Stripe</td>
</tr>
<tr>
<td>Display Mode</td>
<td>a-Si TFT (FFS), Transmissive, Normally Black</td>
</tr>
<tr>
<td>Number of Color</td>
<td>262K colors</td>
</tr>
<tr>
<td>Active Area</td>
<td>30.6(W) x 40.8(H) mm (2.0&quot;)</td>
</tr>
<tr>
<td>Dot Pitch</td>
<td>0.1275(WXRGB) x 0.1275(H) mm (199dpi)</td>
</tr>
<tr>
<td>Module Size</td>
<td>35.8(W) x 54.12(H) x 1.79(T) mm (without FPC)</td>
</tr>
<tr>
<td>Weight</td>
<td>6.0 g Typ.</td>
</tr>
<tr>
<td>Interface</td>
<td>RGB(16/18bit)+SPI</td>
</tr>
<tr>
<td>Backlight</td>
<td>3LEDs Serial</td>
</tr>
<tr>
<td>Polarizer Surface</td>
<td>Clear Hard Coat</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-20°C to 70°C</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-30°C to 80°C</td>
</tr>
</tbody>
</table>

### Optical and Electrical Spec

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast Ratio</td>
<td>800 : 1 Typ.</td>
</tr>
<tr>
<td>Luminance</td>
<td>350cd/m² Typ. (IL=20mA)</td>
</tr>
<tr>
<td>NTSC Ratio</td>
<td>70% Typ.</td>
</tr>
<tr>
<td>Viewing Angle(U/D/R/L)</td>
<td>80/80/80/80 (°CR ≥ 10)</td>
</tr>
<tr>
<td>Response Time</td>
<td>35ms Typ. (°25°C)</td>
</tr>
<tr>
<td>Driver IC</td>
<td>R6150SW (Renesas)</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>VDD(10)-1.35–3.3V, VCKAnalog): 2.5–3.3V</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>(36)mW Typ.(LCD), (92)mW Typ.(Backlight)</td>
</tr>
<tr>
<td></td>
<td>DVDD=1.8V, AVDD=2.85 All White Pattern</td>
</tr>
</tbody>
</table>

---

**Important**
Specifications above are subject to change without notice.

Rev. a. 3 (2011/02/16)