**CRYSTAL FILTER FOR BASE STATION / IF**

**TF4-71GX2**

- High stability for external impedance with matching circuit.
- Applications: Base station for mobile phones

### Specifications (characteristics)

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Frequency</td>
<td>f₀</td>
<td>71 MHz</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>T_stg</td>
<td>-40 °C to +85 °C</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>T_use</td>
<td>0 °C to +70 °C</td>
</tr>
<tr>
<td>Number of poles</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Passband</td>
<td>BW</td>
<td>f₀±80 kHz Min. (3 dB down)</td>
</tr>
<tr>
<td>Insertion loss</td>
<td>IL</td>
<td>6 dB Max.</td>
</tr>
<tr>
<td>Ripple</td>
<td>Ri</td>
<td>1 dB Max.</td>
</tr>
<tr>
<td>Stop band attenuation</td>
<td>ATT</td>
<td>f₀±200 kHz Max. (28 dB down)</td>
</tr>
<tr>
<td>Terminating impedance</td>
<td>Z</td>
<td>70 dB Min. (f₀-800 kHz)</td>
</tr>
<tr>
<td>Package</td>
<td></td>
<td>S-436</td>
</tr>
</tbody>
</table>

### Electrical DATA

![Graph showing insertion attenuation and passband](image)

### External dimensions

(Unit:mm)

![External dimensions diagram](image)

### Footprint (Recommended)

(Unit:mm)

![Footprint diagram](image)
“3D STRATEGY” EPSON TOYOCOM

In order to meet customer needs in a rapidly advancing digital, broadband and ubiquitous society, we are committed to offering products that are one step ahead of the market and a rank above the rest in quality. To achieve our goals, we follow a “3D (three device) strategy” designed to drive both horizontal and vertical growth. We will to grow our three device categories of “Timing Devices”, “Sensing Devices” and “Optical Devices”, and expand vertical growth through a combination of products from these categories.

Quartz devices have become crucial in the network environment where products are increasingly intended for broadband, ubiquitous applications and where various types of terminals can transfer information almost immediately via LAN and WAN on a global scale. Epson Toyocom Corporation addresses every single aspect within a network environment. The new corporation offers “Digital Convergence” solutions to problems arising with products for consumer use, such as, core network systems and automotive systems.

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Epson Toyocom, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification. In the future, new group companies will be expected to acquire the certification around the third year of operations.

WORKING FOR HIGH QUALITY

Epson Toyocom quickly began working to acquire company-wide ISO 9000 series certification, and has acquired ISO 9001 or ISO 9002 certification for all targeted products manufactured in Japanese and overseas plants. Epson Toyocom has acquired QS-9000 certification, which is of a higher level. Also, TS 16949 certification, which is also of a higher level, has been acquired.

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