Description

High accuracy and wide range makes the 1070 capacitance decade box suitable for applications in industry and education. It is both compact and robust, housed in a metal case that provides complete screening, with a protective rubber cover to guard the 1070 against everyday wear and tear. The 5-digit thumbwheel switch enables simple and precise setting of the capacitance value.

Clear Visual Indication: To make selecting and reading the setting easy the 1070 incorporates colour coded digits: μF - red, nF - white, pF - yellow.

Safety Terminals: Compatible with 4 mm shrouded plugs, as well as standard plugs, bare wires, and spade terminals.

Added Protection: The 1070 comes fitted with an ergonomic rubber cover providing increased protection and durability. It has a textured grip for comfortable handling and side openings to place labels. It is easy to remove if the user prefers a stand-alone unit or to house the 1070 in the optional 9026 carry case.

Specifications

Range / Resolution ........................................... 0 to 10 μF / 100 pF steps (9 steps per decade).

<table>
<thead>
<tr>
<th>Decade</th>
<th>100 pF</th>
<th>1 nF</th>
<th>10 nF</th>
<th>100 nF</th>
<th>1 μF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy @ 1 kHz</td>
<td>1 % ± 5 pF</td>
<td>1 % ± 5 pF</td>
<td>1 %</td>
<td>1 %</td>
<td>1 %</td>
</tr>
<tr>
<td>Capacitor type</td>
<td>Silver mica</td>
<td>Silver mica</td>
<td>Silver mica</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Max voltage</td>
<td>300 V DC</td>
<td>300 V DC</td>
<td>100 V DC</td>
<td>100 V DC</td>
<td>100 V DC</td>
</tr>
<tr>
<td></td>
<td>200 V AC</td>
<td>200 V AC</td>
<td>72 V AC</td>
<td>72 V AC</td>
<td>115 V AC</td>
</tr>
<tr>
<td>Max temp coefficient</td>
<td>200 ppm/°C</td>
<td>50 ppm/°C</td>
<td>50 ppm/°C</td>
<td>75 ppm/°C</td>
<td>75 ppm/°C</td>
</tr>
<tr>
<td>Power factor @ 1 kHz</td>
<td>&lt; 0.0015</td>
<td>&lt; 0.002</td>
<td>&lt; 0.01</td>
<td>&lt; 0.01</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt; 50 GΩ</td>
<td>&gt; 50 GΩ</td>
<td>&gt; 30 GΩ</td>
<td>&gt; 30 GΩ</td>
<td>&gt; 30 GΩ</td>
</tr>
</tbody>
</table>

Residual Capacitance ........................................... Approximately 40 pF.

Dimensions / Weight ........................................... W 215 x H 100 x D 120 mm / 0.8 kg.

Features

- 100 pF to 10 μF
- 1 % accuracy
- Clear visual indication
- Bi-polar working
- 40 pF residual capacitance
- Safety terminals
- Removable protective cover
- Suitable for industry or education

Ordering Information

1070................................................. Capacitance Decade Box
9026................................................. Leatherette carry case
C161............................................. Traceable calibration certificate (Factory)
C114............................................. Accredited calibration certificate (ISO 17025)