R75 2 - R75 L
MKP Series

METALLIZED POLYPROPYLENE FILM
CAPACITOR

Typical applications: This special release is specifically designed for application in series with the main (Capacitive power supply), with particular protection against severe ambient conditions.

BEST FITTING COMPONENTS IN TERMS
OF BOTH SIZE & PERFORMANCES

PRODUCT CODE: R752 (Digit 12: 0 to 9)
R75L Digit 12: 0 to 9)

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Box thickness</th>
<th>Maximum dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(mm)</td>
<td>(mm)</td>
<td>B max</td>
</tr>
<tr>
<td>15.0</td>
<td>&lt;7.5</td>
<td>B +0.2</td>
</tr>
<tr>
<td>15.0</td>
<td>≥7.5</td>
<td>B +0.2</td>
</tr>
<tr>
<td>22.5</td>
<td>All</td>
<td>B +0.2</td>
</tr>
<tr>
<td>27.5</td>
<td>All</td>
<td>B +0.2</td>
</tr>
<tr>
<td>37.5</td>
<td>All</td>
<td>B +0.3</td>
</tr>
</tbody>
</table>

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.
Plates: aluminium layer deposited by evaporation under vacuum.
Winding: non-inductive type.
Leads: tinned wire.
Protection: plastic case, thermosetting resin filled.
Marking: manufacturer’s logo, series (R75), dielectric code (MKP), capacitance, tolerance, A.C. rated voltage, manufacturing date code.
Climatic category: 55/105/56 IEC 60068-1
Operating temperature range: -55 to +105°C
Related documents: IEC 60384-16

Winding scheme

Table 1

<table>
<thead>
<tr>
<th>Standard packaging style</th>
<th>Lead length</th>
<th>Taping style</th>
<th>Ordering code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(mm)</td>
<td>Pitch (mm)</td>
<td>(Digit 10 to 11)</td>
</tr>
<tr>
<td>AMMO-PACK</td>
<td>12.70</td>
<td>15.0</td>
<td>DQ</td>
</tr>
<tr>
<td>AMMO-PACK</td>
<td>19.05</td>
<td>22.5</td>
<td>DQ</td>
</tr>
<tr>
<td>REEL Ø 355mm</td>
<td>12.70</td>
<td>15.0</td>
<td>GY</td>
</tr>
<tr>
<td>REEL Ø 500mm</td>
<td>12.70</td>
<td>15.0</td>
<td>CK</td>
</tr>
<tr>
<td>REEL Ø 500mm</td>
<td>19.05</td>
<td>22.5/27.5</td>
<td>CK</td>
</tr>
<tr>
<td>Loose, short leads</td>
<td>4²</td>
<td></td>
<td>AA</td>
</tr>
<tr>
<td>Loose, long leads (p&gt;15mm)</td>
<td>30⁰</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>25²</td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

Note: Ammo-pack is the preferred packaging for taped version.

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# METALLIZED POLYPROPYLENE FILM CAPACITOR

**PRODUCT CODE:** R752 (Digit 12: 0 to 9)
R75L (Digit 12: 0 to 9)

## Mechanical version and packaging (Table 1)

### Internal use

**Tolerance:** K (+10%); M (+20%)

All dimensions are in mm

### E12 Series available upon request

**Tolerance:** K (+10%); M (+20%)
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METALLIZED POLYPROPYlene FILm CAPACITOR

PRODUCT CODE: R752 (Digit 12: 0 to 9)
R75L (Digit 12: 0 to 9)

TEST METHOD AND PERFORMANCE

Damp heat, steady state:

Test conditions 1st
Temperature: +40°C±2°C
Relative humidity (RH): 93% ±2%
Test duration: 56 days
Performance
Capacitance change |ΔC/C|:<2%
DF change (Δtgδ): ≤10x10^-4 at 1kHz
Insulation resistance: ≥50% of initial limit.

Test conditions 2nd
Temperature: +40°C±2°C
Relative humidity (RH): 93% ±2%
Test duration: 56 days
Voltage applied: V_r
Performance
Capacitance change |ΔC/C|:<5%
DF change (Δtgδ): ≤10x10^-4 at 1kHz
Insulation resistance: ≥50% of initial limit.

Test conditions 3rd
Temperature: +85°C±2°C
Relative humidity (RH): 85% ±2%
Test duration: 250 h
Voltage applied: V_r
Performance
Capacitance change |ΔC/C|:<5%
DF change (Δtgδ): ≤10x10^-4 at 1kHz
Insulation resistance: ≥50% of initial limit.

Endurance:

Test conditions
Temperature: +85°C±2°C
Test duration: 2000 h
Voltage applied: 1.25xV_r
Performance
Capacitance change |ΔC/C|:<5%
DF change (Δtgδ): ≤10x10^-4 at 10kHz for C≤1µF
≤10x10^-4 at 1kHz for C>1µF
Insulation resistance: ≥50% of initial limit.

Resistance to soldering heat:

Test conditions
Solder bath temperature: +260°C±5°C
Dipping time (with heat screen): 10 ±1 s
Performance
Capacitance change |ΔC/C|:<1%
DF change (Δtgδ): ≤10x10^-4 at 10kHz for C≤1µF
≤10x10^-4 at 1kHz for C>1µF
Insulation resistance: ≥initial limit.

Long term stability (after two years):

Storage: standard environmental conditions (see page 12 of DC film capacitors catalogue)
Performance
Capacitance change |ΔC/C|:<0.5%

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