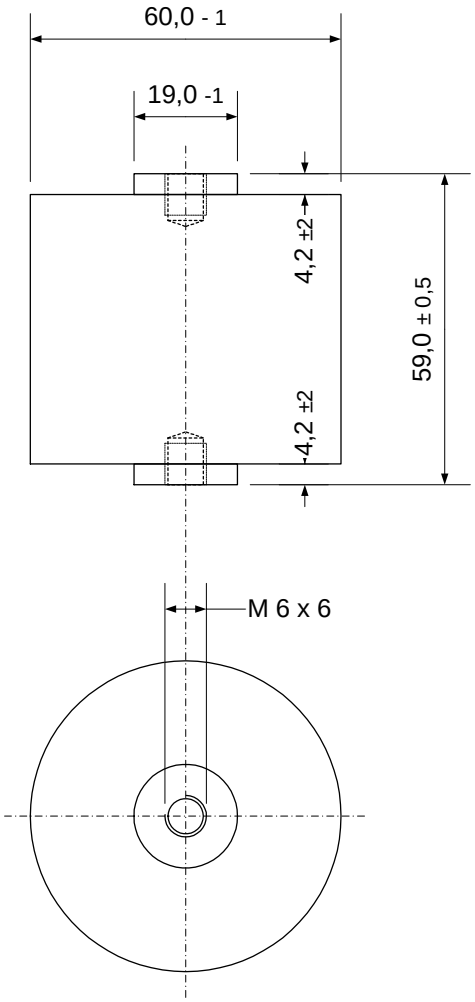
| Le Clanché Capacitors | Film Capacitors | PPM 300-022 dv J |
|---|---|---|

date: 29.09.2009 14:42
issued by: db
version: 1.0

## Technical data

| | | | |
|---|---|---|---|
| Nominal capacitance | $C_N$ | 0,22 | µF ± 5% |
| Nominal voltage dc | $U_{NDC}$ | 3000 | V |
| Surge voltage | $U_S$ | 4500 | V |
| Energy | $W_N$ | 1 | Ws |
| Max. Peak periodic current | $\hat{I}_{Periodic}$ | 192 | A |
| Max. Pulse rise time | $\Delta U/\Delta t$ | 872 | V/µs |
| Series resistance @ 100 kHz | $R_{ESR}$ | 10,5 | mΩ |
| Dissipation factor @ 1 kHz | tanδ | 2,08 | $x10^{-4}$ |




Max. Power loss
@ $\vartheta_{hotspot}$ 85℃ / nat. convection
@ 10kHz

| $P_{max}$ | @ $\vartheta_{case}$ | $I_{max}$ |
|---|---|---|
| 4,1 W | 40 ℃ | 19,7 A |
| 3,2 W | 50 ℃ | 17,4 A |
| 2,3 W | 60 ℃ | 14,7 A |
| 1,4 W | 70 ℃ | 11,4 A |

$U_N$-Derating

| $U_{Nmax}$ | @ $\vartheta_{case}$ |
|---|---|
| $U_N$ x 1 | ≤ 70 ℃ |
| $U_N$ x 0,9 | ≤ 75 ℃ |
| $U_N$ x 0,8 | ≤ 80 ℃ |
| $U_N$ x 0,7 | ≤ 85 ℃ |

| | | | |
|---|---|---|---|
| Min. Operating temperature | $\vartheta_{min}$ | -40 | ℃ |
| Max. Operating temperature ($I_R$ =0) | $\vartheta_{max}$ | +70 | ℃ |
| Storage temperature | $\vartheta_{Lager}$ | -40...+70 | ℃ |
| Thermal resistance (case hotspot) | $R_{th}$ | 11 | ℃/W |
| Climatic category DIN IEC 68/1 | | 40/070/21 | |

## Test Data

| | | | |
|---|---|---|---|
| Test voltage between terminals | $U_{TT}$ | 4500 | V dc / 10s |

**Life expectancy** @ hot spot 60℃ 100 000 h

Failure rate 300 fit
applied parameters 0,5 x UN ; 40℃

## General technical data

| | |
|---|---|
| Coating | plastic case with resin sealing<br>Flame retardant according to UL 94V-0 |
| Dielectric | polypropylene |
| Terminals | brass nickel plated |
| Weight | ~ 250g |

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