

## Metallized Polypropylene Film Capacitors DC-Link Capacitor



### FEATURES

- Slim line, low building height
- Very long useful life time: Up to 100 000 h at  $U_{NDC}$  and 70 °C
- High ripple current capability, low ESR, low ESL
- Temperature range: 105 °C
- Mounting: Radial
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

### APPLICATIONS

- PV micro inverters
- LED street lighting
- On board chargers (EV/HEV), battery chargers

### QUICK REFERENCE DATA

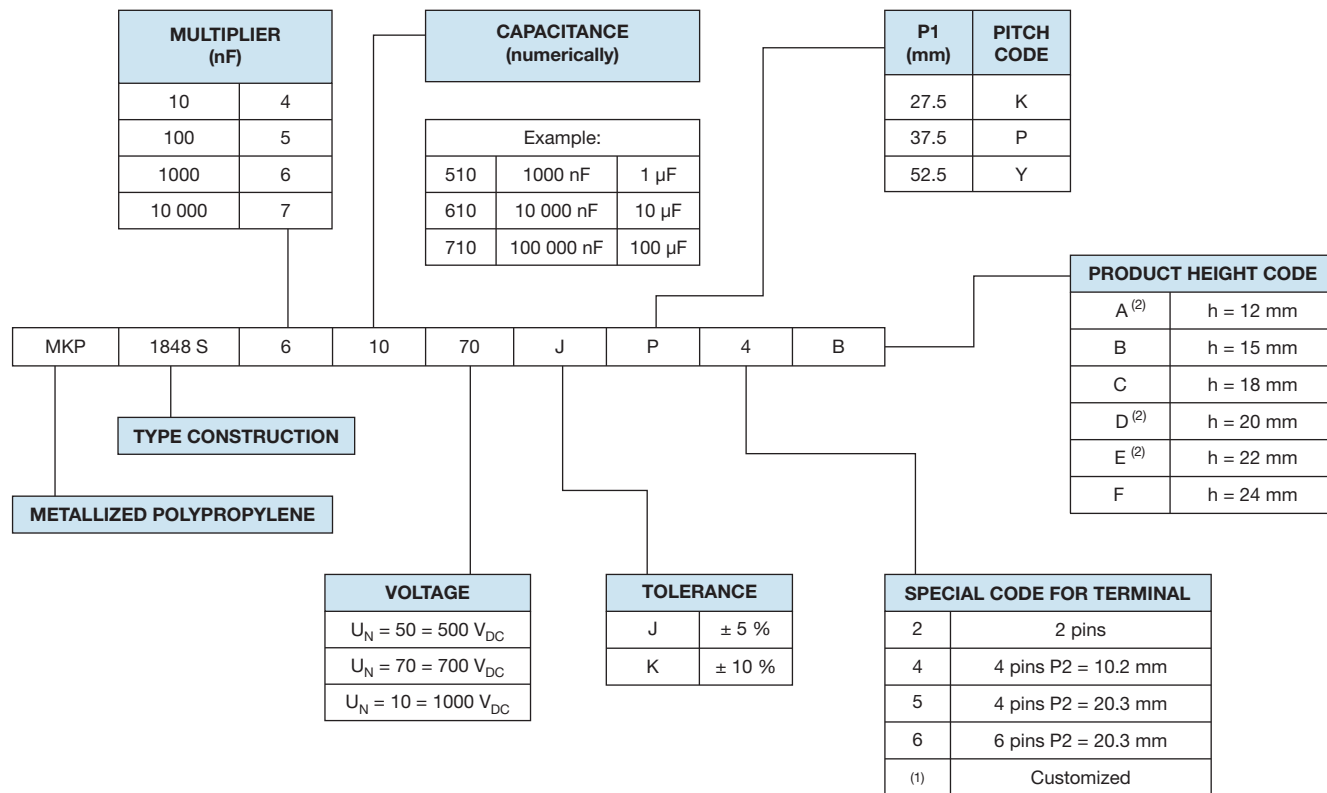
|                                                          |                                                                                                                                                                                          |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated capacitance range                                  | 2 $\mu$ F to 100 $\mu$ F                                                                                                                                                                 |
| Capacitance tolerance                                    | 5 %                                                                                                                                                                                      |
| Rated voltage range, $U_{NDC}$                           | 500 V to 1000 V                                                                                                                                                                          |
| Climatic testing class                                   | 40/105/56                                                                                                                                                                                |
| Rated temperature                                        | 85 °C                                                                                                                                                                                    |
| Maximum permissible case temperature                     | 105 °C, observing voltage derating                                                                                                                                                       |
| Maximum applicable peak to peak ripple voltage           | 0.2 x $U_{NDC}$                                                                                                                                                                          |
| Reference standards                                      | IEC 61071, IEC 60068                                                                                                                                                                     |
| Dielectric                                               | Polypropylene film                                                                                                                                                                       |
| Electrodes                                               | Metallized dielectric capacitor                                                                                                                                                          |
| Construction                                             | Mono construction                                                                                                                                                                        |
| Encapsulation                                            | Plastic case sealed with resin; flame retardant                                                                                                                                          |
| Terminals                                                | Tinned wire                                                                                                                                                                              |
| Self inductance ( $L_s$ )                                | < 1 nH per mm of lead spacing                                                                                                                                                            |
| Withstanding DC voltage between terminals <sup>(1)</sup> | 1.5 $U_{NDC}$ for 10 s, cut off current 10 mA, rise time $\leq$ 1000 V/s                                                                                                                 |
| Insulation resistance                                    | RC between leads, after 1 min > 10 000 s<br>For $U_{NDC} \leq$ 500 V measuring voltage 100 V<br>For $U_{NDC} >$ 500 V measuring voltage 500 V                                            |
| Life time expectancy                                     | Useful life time: > 100 000 h at $U_{NDC}$ and 70 °C<br>FIT: < 10 x 10 <sup>-9</sup> /h (10 per 10 <sup>9</sup> component h) at 0.5 x $U_{NDC}$ , 40 °C                                  |
| Marking                                                  | C-value; tolerance; rated voltage; code for dielectric material;<br>code for manufacturing origin; manufacturer's type designation;<br>manufacturer's logo; year and week of manufacture |

#### Notes

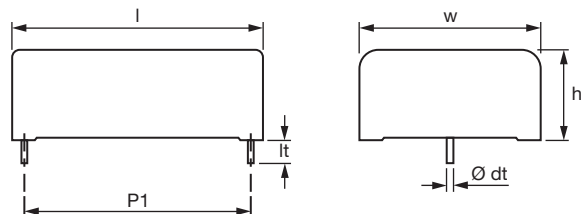
- For more detailed data and test requirements, contact [dc-film@vishay.com](mailto:dc-film@vishay.com)
  - For general information like characteristics and definitions used for film capacitors follow the link: [www.vishay.com/doc?28147](http://www.vishay.com/doc?28147)
- <sup>(1)</sup> See document "Voltage Proof Test for Metalized Capacitors" ([www.vishay.com/doc?28169](http://www.vishay.com/doc?28169))

### DC VOLTAGE RATINGS

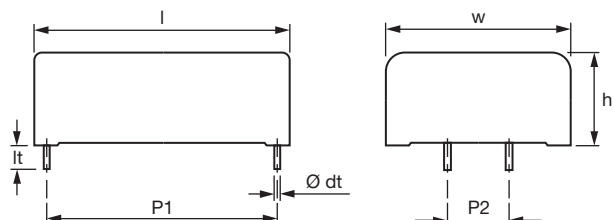
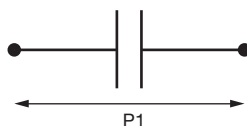
|                      |       |       |        |
|----------------------|-------|-------|--------|
| $U_{NDC}$ at 85 °C   | 500 V | 700 V | 1000 V |
| $U_{OPDC}$ at 70 °C  | 600 V | 800 V | 1200 V |
| $U_{OPDC}$ at 105 °C | 350 V | 500 V | 750 V  |

**COMPOSITION OF CATALOG NUMBER**

**Notes**

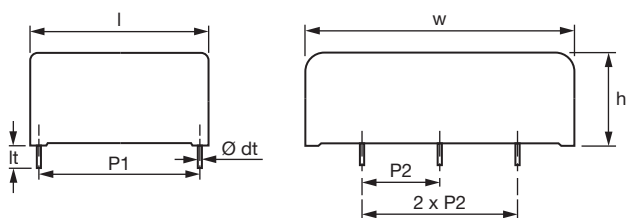
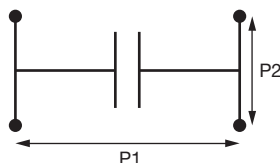
- (1) Tabs terminals or customized terminals are available on request  
 (2) Product height on request

**DIMENSIONS** in millimeters


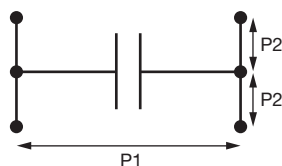
$P1 \pm 0.5 \text{ mm}$   
 $lt = 6 \text{ mm} + 0 \text{ mm} / - 1 \text{ mm}$



$P1 \text{ and } P2 \pm 0.5 \text{ mm}$   
 $lt = 6 \text{ mm} + 0 \text{ mm} / - 2 \text{ mm}$



$P1 \text{ and } P2 \pm 0.5 \text{ mm}$   
 $lt = 6 \text{ mm} + 0 \text{ mm} / - 2 \text{ mm}$


**Notes**

- Standard dimension
- $\varnothing dt \pm 10 \%$  of standard diameter specified



| <b>ELECTRICAL DATA AND ORDERING CODE</b> |                              |                                           |                                                |          |          |                          |                          |                               |                                       |                                                     |                         |                                          |                         |                                                                               |                         |                                     |
|------------------------------------------|------------------------------|-------------------------------------------|------------------------------------------------|----------|----------|--------------------------|--------------------------|-------------------------------|---------------------------------------|-----------------------------------------------------|-------------------------|------------------------------------------|-------------------------|-------------------------------------------------------------------------------|-------------------------|-------------------------------------|
| <b>U<sub>NDC</sub></b><br><b>(V)</b>     | <b>HEIGHT</b><br><b>(mm)</b> | <b>CAP. <sup>(7)</sup></b><br><b>(μF)</b> | <b>DIMENSION <sup>(5)</sup></b><br><b>(mm)</b> |          |          | <b>P1</b><br><b>(mm)</b> | <b>P2</b><br><b>(mm)</b> | <b>dV/dt</b><br><b>(V/μs)</b> | <b>I<sub>PEAK</sub></b><br><b>(A)</b> | <b>I<sub>RMS</sub> <sup>(2)</sup></b><br><b>(A)</b> |                         | <b>ESR <sup>(3)</sup></b><br><b>(mΩ)</b> |                         | <b>tan δ</b><br><b>10 kHz</b><br><b>(&lt; 10<sup>-4</sup>) <sup>(4)</sup></b> |                         | <b>ORDERING CODE <sup>(1)</sup></b> |
|                                          |                              |                                           | <b>w</b>                                       | <b>h</b> | <b>l</b> |                          |                          |                               |                                       | <b>2</b><br><b>PINS</b>                             | <b>4</b><br><b>PINS</b> | <b>2</b><br><b>PINS</b>                  | <b>4</b><br><b>PINS</b> | <b>2</b><br><b>PINS</b>                                                       | <b>4</b><br><b>PINS</b> |                                     |
| 500                                      | 12                           | 5                                         | 24.0                                           | 12.0     | 31.5     | 27.5                     | -                        | 30                            | 150                                   | 4                                                   | -                       | 13                                       | -                       | 60                                                                            | -                       | MKP1848S55050JK2A                   |
|                                          | 15                           | 7                                         | 27.0                                           | 15.0     | 31.5     | 27.5                     | -                        | 30                            | 210                                   | 5                                                   | -                       | 10                                       | -                       | 60                                                                            | -                       | MKP1848S57050JK2B                   |
|                                          |                              | 10                                        | 27.0                                           | 15.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 150                                   | 5                                                   | 5                       | 10                                       | 7.5                     | 125                                                                           | 110                     | MKP1848S61050JP*B                   |
|                                          |                              | 15                                        | 33.0                                           | 15.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 225                                   | 6.5                                                 | 7                       | 7                                        | 5                       | 125                                                                           | 110                     | MKP1848S61550JP*B                   |
|                                          |                              | 20                                        | 33.0                                           | 15.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 140                                   | 6                                                   | 6.5                     | 9.5                                      | 8                       | 250                                                                           | 220                     | MKP1848S62050JY*B                   |
|                                          |                              | 30                                        | 45.0                                           | 15.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 210                                   | 8.5                                                 | 9                       | 6.5                                      | 5.5                     | 250                                                                           | 220                     | MKP1848S63050JY*B                   |
|                                          |                              | 50 <sup>(6)</sup>                         | 62.0                                           | 15.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 350                                   | -                                                   | 13.5                    | -                                        | 3.5                     | -                                                                             | 220                     | MKP1848S65050JY6B                   |
|                                          | 18                           | 10                                        | 24.0                                           | 18.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 150                                   | 5                                                   | 5.5                     | 10                                       | 7.5                     | 125                                                                           | 110                     | MKP1848S61050JP*C                   |
|                                          |                              | 15                                        | 27.0                                           | 18.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 225                                   | 6.5                                                 | 7                       | 6.5                                      | 5                       | 125                                                                           | 110                     | MKP1848S61550JP*C                   |
|                                          |                              | 20                                        | 39.0                                           | 18.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 300                                   | 8.5                                                 | 9                       | 5                                        | 4                       | 125                                                                           | 110                     | MKP1848S62050JP*C                   |
|                                          |                              | 30                                        | 35.0                                           | 18.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 210                                   | 8                                                   | 8.5                     | 6.5                                      | 5.5                     | 250                                                                           | 220                     | MKP1848S63050JY*C                   |
|                                          |                              | 50                                        | 50.0                                           | 18.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 350                                   | -                                                   | 12.5                    | -                                        | 3.5                     | 250                                                                           | 220                     | MKP1848S65050JY5C                   |
|                                          | 24                           | 20                                        | 30.0                                           | 24.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 300                                   | 8.5                                                 | 9                       | 5                                        | 4                       | 125                                                                           | 110                     | MKP1848S62050JP*F                   |
|                                          |                              | 30                                        | 39.0                                           | 24.0     | 42.0     | 37.5                     | 10.2                     | 15                            | 450                                   | 11                                                  | 12                      | 3.5                                      | 2.5                     | 125                                                                           | 110                     | MKP1848S63050JP*F                   |
|                                          |                              | 50                                        | 39.0                                           | 24.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 350                                   | 11.5                                                | 12.5                    | 4                                        | 3.5                     | 250                                                                           | 220                     | MKP1848S65050JY*F                   |
|                                          |                              | 100 <sup>(6)</sup>                        | 70.0                                           | 24.0     | 57.5     | 52.5                     | 20.3                     | 7                             | 700                                   | -                                                   | 22                      | -                                        | 2                       | -                                                                             | 220                     | MKP1848S71050JY6F                   |
| 700                                      | 12                           | 3                                         | 24.0                                           | 12.0     | 31.5     | 27.5                     | -                        | 35                            | 105                                   | 3.5                                                 | -                       | 14                                       | -                       | 45                                                                            | -                       | MKP1848S53070JK2A                   |
|                                          | 15                           | 5                                         | 27.0                                           | 15.0     | 31.5     | 27.5                     | -                        | 35                            | 175                                   | 5                                                   | -                       | 8                                        | -                       | 45                                                                            | -                       | MKP1848S55070JK2B                   |
|                                          |                              | 7                                         | 27.0                                           | 15.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 119                                   | 5                                                   | 5                       | 15                                       | 11.5                    | 110                                                                           | 95                      | MKP1848S57070JP*B                   |
|                                          |                              | 10                                        | 33.0                                           | 15.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 170                                   | 6                                                   | 6.5                     | 11                                       | 8                       | 110                                                                           | 95                      | MKP1848S61070JP*B                   |
|                                          |                              | 15                                        | 33.0                                           | 15.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 120                                   | 6                                                   | 6.5                     | 12                                       | 10                      | 220                                                                           | 200                     | MKP1848S61570JY*B                   |
|                                          |                              | 20                                        | 45.0                                           | 15.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 160                                   | 8                                                   | 8.5                     | 9                                        | 7.5                     | 220                                                                           | 200                     | MKP1848S62070JY*B                   |
|                                          |                              | 30 <sup>(6)</sup>                         | 62.0                                           | 15.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 240                                   | -                                                   | 12                      | -                                        | 5                       | -                                                                             | 200                     | MKP1848S63070JY6B                   |
|                                          | 18                           | 7                                         | 24.0                                           | 18.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 119                                   | 5                                                   | 5                       | 15                                       | 11.5                    | 110                                                                           | 95                      | MKP1848S57070JP*C                   |
|                                          |                              | 10                                        | 27.0                                           | 18.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 170                                   | 6                                                   | 6.5                     | 11                                       | 8                       | 110                                                                           | 95                      | MKP1848S61070JP*C                   |
|                                          |                              | 15                                        | 39.0                                           | 18.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 255                                   | 8.5                                                 | 9                       | 7                                        | 5.5                     | 110                                                                           | 95                      | MKP1848S61570JP*C                   |
|                                          |                              | 20                                        | 35.0                                           | 18.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 160                                   | 7.5                                                 | 8                       | 9                                        | 7.5                     | 220                                                                           | 200                     | MKP1848S62070JY*C                   |
|                                          |                              | 30                                        | 50.0                                           | 18.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 240                                   | -                                                   | 11.5                    | -                                        | 5                       | -                                                                             | 200                     | MKP1848S63070JY5C                   |
|                                          | 24                           | 15                                        | 30.0                                           | 24.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 255                                   | 8.5                                                 | 9                       | 7                                        | 5.5                     | 110                                                                           | 95                      | MKP1848S61570JP*F                   |
|                                          |                              | 20                                        | 39.0                                           | 24.0     | 42.0     | 37.5                     | 10.2                     | 17                            | 340                                   | 10.5                                                | 11.5                    | 6                                        | 4                       | 110                                                                           | 95                      | MKP1848S62070JP*F                   |
|                                          |                              | 30                                        | 39.0                                           | 24.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 240                                   | 10.5                                                | 11                      | 6                                        | 5                       | 220                                                                           | 200                     | MKP1848S63070JY*F                   |
|                                          |                              | 50 <sup>(6)</sup>                         | 70.0                                           | 24.0     | 57.5     | 52.5                     | 20.3                     | 8                             | 400                                   | -                                                   | 18                      | -                                        | 3                       | -                                                                             | 200                     | MKP1848S65070JY6F                   |



## ELECTRICAL DATA AND ORDERING CODE

| U <sub>NDC</sub><br>(V) | HEIGHT<br>(mm) | CAP. <sup>(7)</sup><br>(μF) | DIMENSION <sup>(5)</sup><br>(mm) |      |      | P1<br>(mm) | P2<br>(mm) | dV/dt<br>(V/μs) | I <sub>PEAK</sub><br>(A) | I <sub>RMS</sub> <sup>(2)</sup><br>(A) |           | ESR <sup>(3)</sup><br>(mΩ) |           | tan δ<br>10 kHz<br>( $< 10^{-4}$ ) <sup>(4)</sup> |           | ORDERING CODE <sup>(1)</sup> |
|-------------------------|----------------|-----------------------------|----------------------------------|------|------|------------|------------|-----------------|--------------------------|----------------------------------------|-----------|----------------------------|-----------|---------------------------------------------------|-----------|------------------------------|
|                         |                |                             | w                                | h    | l    |            |            |                 |                          | 2<br>PINS                              | 4<br>PINS | 2<br>PINS                  | 4<br>PINS | 2<br>PINS                                         | 4<br>PINS |                              |
|                         |                |                             |                                  |      |      |            |            |                 |                          |                                        |           |                            |           |                                                   |           |                              |
| 1000                    | 12             | 2                           | 24.0                             | 12.0 | 31.5 | 27.5       | -          | 50              | 100                      | 3                                      | -         | 16                         | -         | 40                                                | -         | MKP1848S52010JK2A            |
|                         | 15             | 5                           | 27.0                             | 15.0 | 42.0 | 37.5       | 10.2       | 25              | 125                      | 4.5                                    | 4.5       | 16                         | 11.5      | 105                                               | 90        | MKP1848S55010JP*B            |
|                         |                | 7                           | 33.0                             | 15.0 | 42.0 | 37.5       | 10.2       | 25              | 175                      | 5.5                                    | 6         | 12                         | 8         | 105                                               | 90        | MKP1848S57010JP*B            |
|                         |                | 10                          | 33.0                             | 15.0 | 57.5 | 52.5       | 20.3       | 12              | 120                      | 5.5                                    | 6         | 13                         | 10        | 160                                               | 140       | MKP1848S61010JY*B            |
|                         |                | 15                          | 45.0                             | 15.0 | 57.5 | 52.5       | 20.3       | 12              | 180                      | 7.5                                    | 8         | 9                          | 6.5       | 160                                               | 140       | MKP1848S61510JY*B            |
|                         |                | 20 <sup>(6)</sup>           | 62.0                             | 15.0 | 57.5 | 52.5       | 20.3       | 12              | 240                      | -                                      | 11        | -                          | 5         | -                                                 | 140       | MKP1848S62010JY6B            |
|                         | 18             | 3                           | 24.0                             | 18.0 | 42.0 | 37.5       | 10.2       | 25              | 75                       | 3.5                                    | 3.5       | 27                         | 19        | 105                                               | 90        | MKP1848S53010JP*C            |
|                         |                | 5                           | 27.0                             | 18.0 | 42.0 | 37.5       | 10.2       | 25              | 125                      | 4.5                                    | 5         | 16                         | 11.5      | 105                                               | 90        | MKP1848S55010JP*C            |
|                         |                | 7                           | 39.0                             | 18.0 | 42.0 | 37.5       | 10.2       | 25              | 175                      | 6.5                                    | 7         | 12                         | 8         | 105                                               | 90        | MKP1848S57010JP*C            |
|                         |                | 10                          | 39.0                             | 18.0 | 42.0 | 37.5       | 10.2       | 25              | 250                      | 7.5                                    | 8         | 8                          | 6         | 105                                               | 90        | MKP1848S61010JP*C            |
|                         |                | 15                          | 50.0                             | 18.0 | 57.5 | 52.5       | 20.3       | 12              | 180                      | -                                      | 9         | -                          | 6.5       | -                                                 | 140       | MKP1848S61510JY5C            |
|                         |                | 20                          | 50.0                             | 18.0 | 57.5 | 52.5       | 20.3       | 12              | 240                      | -                                      | 10        | -                          | 5         | -                                                 | 140       | MKP1848S62010JY5C            |
|                         | 24             | 7                           | 30.0                             | 24.0 | 42.0 | 37.5       | 10.2       | 25              | 175                      | 6.5                                    | 6.5       | 12                         | 8         | 105                                               | 90        | MKP1848S57010JP*F            |
|                         |                | 10                          | 39.0                             | 24.0 | 42.0 | 37.5       | 10.2       | 25              | 250                      | 8.5                                    | 9         | 8                          | 6         | 105                                               | 90        | MKP1848S61010JP*F            |
|                         |                | 15                          | 39.0                             | 24.0 | 57.5 | 52.5       | 20.3       | 12              | 180                      | 8                                      | 8.5       | 9                          | 6.5       | 160                                               | 140       | MKP1848S61510JY*F            |
|                         |                | 20                          | 39.0                             | 24.0 | 57.5 | 52.5       | 20.3       | 12              | 240                      | 9.5                                    | 10        | 7                          | 5         | 160                                               | 140       | MKP1848S62010JY*F            |
|                         |                | 30 <sup>(6)</sup>           | 70.0                             | 24.0 | 57.5 | 52.5       | 20.3       | 12              | 360                      | -                                      | 15.5      | -                          | 4         | -                                                 | 140       | MKP1848S63010JY6F            |

## Notes

- (1) Change the \* symbol with special code for the terminals  
(2) Maximum RMS current at 10 kHz, + 85 °C, Δt = + 15 °C, capacitance tolerance  $\leq \pm 5\%$   
(3) Equivalent series resistance typical values at 10 kHz  
(4) Maximum tan δ values  
(5) Standard dimension  
(6) 6 pins  
(7) Intermediate capacitance values available on request

## PACKAGING INFORMATION

| U <sub>NDC</sub><br>(V) | HEIGHT<br>(mm) | CAP. <sup>(1)</sup><br>(μF) | Ø dt | ORDERING CODE <sup>(1)</sup> | MASS<br>(g) | SPQ <sup>(3)</sup><br>(pcs) |
|-------------------------|----------------|-----------------------------|------|------------------------------|-------------|-----------------------------|
| 500                     | 12             | 5                           | 0.8  | MKP1848S55050JK2A            | 7           | 99                          |
|                         | 15             | 7                           | 0.8  | MKP1848S57050JK2B            | 10.5        | 90                          |
|                         |                | 10                          | 1.0  | MKP1848S61050JP*B            | 14          | 70                          |
|                         |                | 15                          | 1.0  | MKP1848S61550JP*B            | 18.5        | 56                          |
|                         |                | 20                          | 1.2  | MKP1848S62050JY*B            | 22.5        | 40                          |
|                         |                | 30                          | 1.2  | MKP1848S63050JY*B            | 31.5        | 30                          |
|                         |                | 50 <sup>(2)</sup>           | 1.2  | MKP1848S65050JY6B            | 43          | 20                          |
|                         | 18             | 10                          | 1.0  | MKP1848S61050JP*C            | 15          | 77                          |
|                         |                | 15                          | 1.0  | MKP1848S61550JP*C            | 15.5        | 70                          |
|                         |                | 20                          | 1.0  | MKP1848S62050JP*C            | 25          | 49                          |
|                         |                | 30                          | 1.2  | MKP1848S63050JY*C            | 30.5        | 40                          |
|                         |                | 50                          | 1.2  | MKP1848S65050JY5C            | 41.5        | 25                          |
|                         | 24             | 20                          | 1.0  | MKP1848S62050JP*F            | 25          | 63                          |
|                         |                | 30                          | 1.0  | MKP1848S63050JP*F            | 32          | 49                          |
|                         |                | 50                          | 1.2  | MKP1848S65050JY*F            | 41.5        | 40                          |
|                         |                | 100 <sup>(2)</sup>          | 1.2  | MKP1848S71050JY6F            | 78          | 20                          |



| PACKAGING INFORMATION   |                |                             |      |                              |             |                             |
|-------------------------|----------------|-----------------------------|------|------------------------------|-------------|-----------------------------|
| U <sub>NDC</sub><br>(V) | HEIGHT<br>(mm) | CAP. <sup>(1)</sup><br>(μF) | Ø dt | ORDERING CODE <sup>(1)</sup> | MASS<br>(g) | SPQ <sup>(3)</sup><br>(pcs) |
| 700                     | 12             | 3                           | 0.8  | MKP1848S53070JK2A            | 6.5         | 99                          |
|                         | 15             | 5                           | 0.8  | MKP1848S55070JK2B            | 9           | 90                          |
|                         |                | 7                           | 1.0  | MKP1848S57070JP*B            | 12.5        | 70                          |
|                         |                | 10                          | 1.0  | MKP1848S61070JP*B            | 16          | 56                          |
|                         |                | 15                          | 1.2  | MKP1848S61570JY*B            | 21.5        | 40                          |
|                         |                | 20                          | 1.2  | MKP1848S62070JY*B            | 32.5        | 30                          |
|                         |                | 30 <sup>(2)</sup>           | 1.2  | MKP1848S63070JY6B            | 43          | 20                          |
|                         | 18             | 7                           | 1.0  | MKP1848S57070JP*C            | 13          | 77                          |
|                         |                | 10                          | 1.0  | MKP1848S61070JP*C            | 15.5        | 70                          |
|                         |                | 15                          | 1.0  | MKP1848S61570JP*C            | 22          | 49                          |
|                         |                | 20                          | 1.2  | MKP1848S62070JY*C            | 29.5        | 40                          |
|                         |                | 30                          | 1.2  | MKP1848S62570JY5C            | 41.5        | 25                          |
|                         | 24             | 15                          | 1.0  | MKP1848S61570JP*F            | 21          | 63                          |
|                         |                | 20                          | 1.0  | MKP1848S62070JP*F            | 28.5        | 49                          |
|                         |                | 30                          | 1.2  | MKP1848S63070JY*F            | 39.5        | 40                          |
|                         |                | 50 <sup>(2)</sup>           | 1.2  | MKP1848S65070JY6F            | 83          | 20                          |
| 1000                    | 12             | 2                           | 0.8  | MKP1848S52010JK2A            | 11          | 99                          |
|                         | 15             | 5                           | 1.0  | MKP1848S55010JP*B            | 13          | 70                          |
|                         |                | 7                           | 1.0  | MKP1848S57010JP*B            | 16.5        | 56                          |
|                         |                | 10                          | 1.2  | MKP1848S61010JY*B            | 21.5        | 40                          |
|                         |                | 15                          | 1.2  | MKP1848S61510JY*B            | 30          | 30                          |
|                         |                | 20 <sup>(2)</sup>           | 1.2  | MKP1848S62010JY6B            | 45          | 20                          |
|                         | 18             | 3                           | 1.0  | MKP1848S53010JP*C            | 16.5        | 77                          |
|                         |                | 5                           | 1.0  | MKP1848S55010JP*C            | 16          | 70                          |
|                         |                | 7                           | 1.0  | MKP1848S57010JP*C            | 25.5        | 49                          |
|                         |                | 10                          | 1.0  | MKP1848S61010JP*C            | 21.5        | 49                          |
|                         |                | 15                          | 1.2  | MKP1848S61510JY5C            | 43.5        | 25                          |
|                         |                | 20                          | 1.2  | MKP1848S62010JY5C            | 43.5        | 25                          |
|                         | 24             | 7                           | 1.0  | MKP1848S57010JP*F            | 25          | 63                          |
|                         |                | 10                          | 1.0  | MKP1848S61010JP*F            | 33          | 49                          |
|                         |                | 15                          | 1.2  | MKP1848S61510JY*F            | 45.5        | 40                          |
|                         |                | 20                          | 1.2  | MKP1848S62010JY*F            | 39          | 40                          |
|                         |                | 30 <sup>(2)</sup>           | 1.2  | MKP1848S63010JY6F            | 87          | 20                          |

**Notes**<sup>(1)</sup> Intermediate capacitance values available on request<sup>(2)</sup> 6 pins<sup>(3)</sup> SPQ = Standard Packing Quantity

## CONSTRUCTION DESCRIPTION

Low inductive wound cell elements of metallized polypropylene film, potted with resin in a flame retardant case.

## SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

The capacitor unit is designed for mounting on a printed circuit board. In order to withstand vibration and shock tests, it must be insured that the stand-off pips are in good contact with the printed circuit board. The capacitors shall be mechanically fixed by the leads and the body clamped.

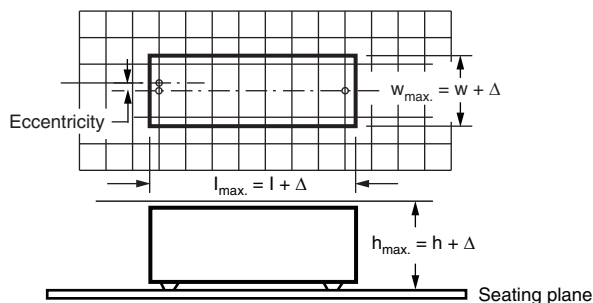
## SPACE REQUIREMENTS ON PRINTED-CIRCUIT BOARD FOR 2 PINS PRODUCTS

The maximum space for length ( $l_{max.}$ ), width ( $w_{max.}$ ) and height ( $h_{max.}$ ) of film capacitors to take in account on the printed circuit board is shown in the drawings.

For products with pitch = 37.5 mm,  $\Delta = 0.7$  mm for  $l$  and  $w$ , and  $\Delta = 0$  mm for  $h$

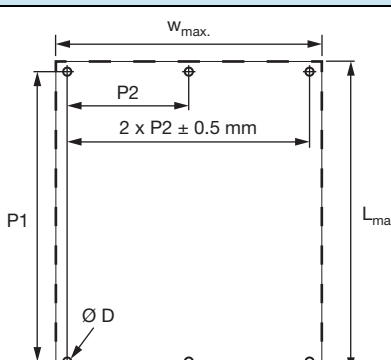
For products with pitch = 52.5 mm,  $\Delta = 1.0$  mm for  $l$  and  $w$ , and  $\Delta = 0$  mm for  $h$

Eccentricity defined as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.



## SPACE REQUIREMENTS ON PRINTED-CIRCUIT BOARD FOR MULTIPLE PINS PRODUCTS

The product height with seating plane as given by "IEC 60717" as reference:  $h_{max.} = h$ . The maximum length and width of film capacitors is shown in the figure.

| DIMENSIONS in millimeters                                                            |                   |                   |     |           |
|--------------------------------------------------------------------------------------|-------------------|-------------------|-----|-----------|
|  |                   |                   |     |           |
| P1                                                                                   | L <sub>max.</sub> | W <sub>max.</sub> | Ø D | H         |
| 37.5                                                                                 | $l + 1.5$         | $w + 1.8$         | 1.5 | $h + 0.5$ |
| 52.5                                                                                 | $l + 1.8$         | $w + 2.0$         | 1.7 | $h + 0.5$ |

## SOLDERING CONDITIONS

For general soldering conditions and wave soldering profile we refer to the document "Soldering Conditions Vishay Film Capacitors": [www.vishay.com/doc?28171](http://www.vishay.com/doc?28171)

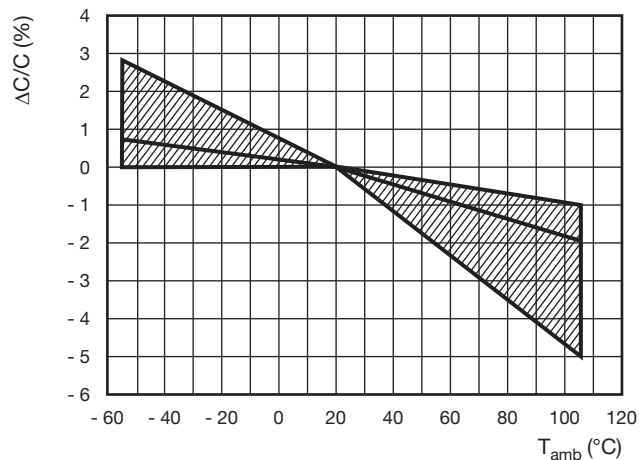
## STORAGE TEMPERATURE

Storage temperature:  $T_{stg} = -25\text{ °C}$  to  $+35\text{ °C}$  with RH maximum 75 % without condensation

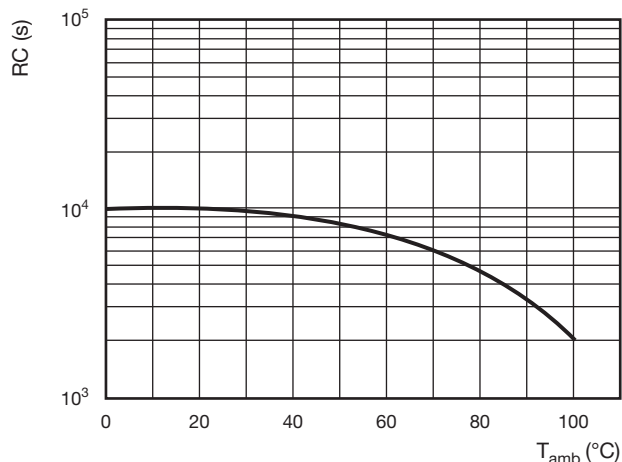
## RATINGS AND CHARACTERISTICS REFERENCE CONDITIONS

Unless otherwise specified, all electrical values apply to an ambient temperature of  $23\text{ °C} \pm 1\text{ °C}$ , an atmospheric pressure of 86 kPa to 106 kPa and a relative humidity of  $50\% \pm 2\%$ .

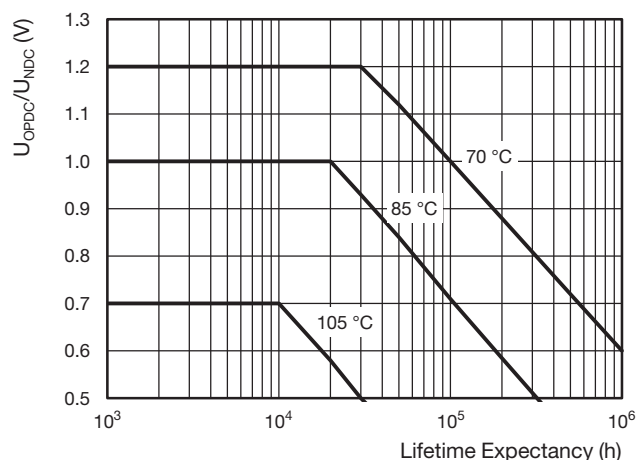
For reference testing, a conditioning period shall be applied over  $96\text{ h} \pm 4\text{ h}$  by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20 %.

**CHARACTERISTICS**


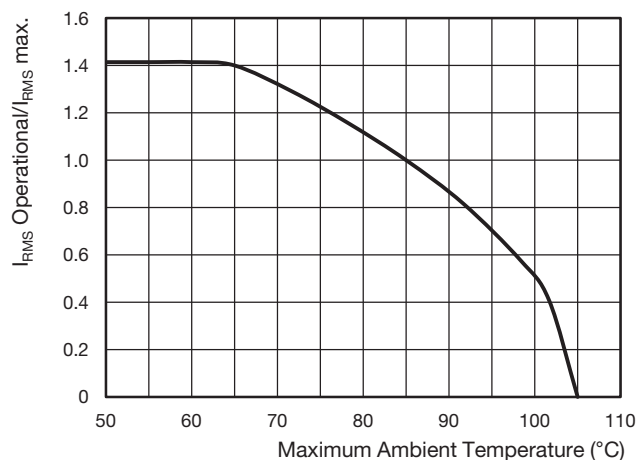
Capacitance as a function of ambient temperature (typical)



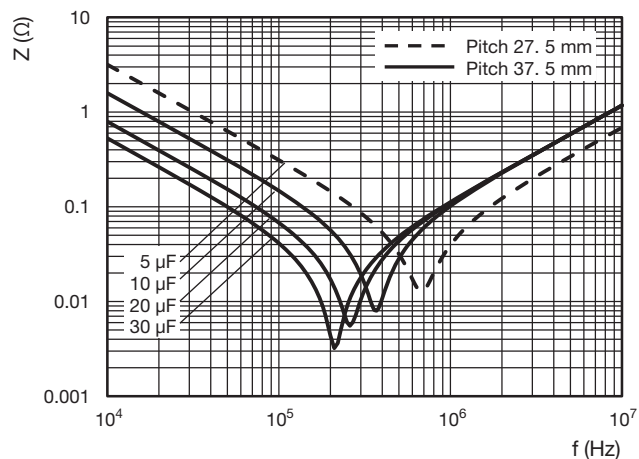
Insulation resistance as a function of ambient temperature (typical)



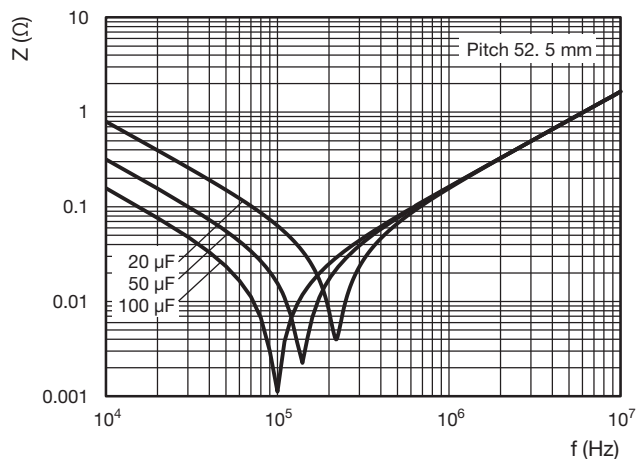
Lifetime expectancy (typical)



Maximum  $I_{RMS}$  current in function of ambient temperature



Impedance vs. Frequency (typical)



Impedance vs. Frequency (typical)

| HEAT CONDUCTIVITY |    |      |                              |
|-------------------|----|------|------------------------------|
| DIMENSION (mm)    |    |      | HEAT CONDUCTIVITY<br>(mW/°C) |
| w                 | h  | l    |                              |
| 24                | 12 | 31.5 | 21.5                         |
| 27                | 15 | 31.5 | 26                           |
| 27                | 15 | 42   | 33                           |
| 33                | 15 | 42   | 38                           |
| 24                | 18 | 42   | 33.5                         |
| 27                | 18 | 42   | 36                           |
| 39                | 18 | 42   | 47                           |
| 30                | 24 | 42   | 45.5                         |
| 39                | 24 | 42   | 54.5                         |
| 33                | 15 | 57.5 | 48.5                         |
| 45                | 15 | 57.5 | 61.5                         |
| 62                | 15 | 57.5 | 80                           |
| 35                | 18 | 57.5 | 55                           |
| 50                | 18 | 57.5 | 72                           |
| 39                | 24 | 57.5 | 68                           |
| 70                | 24 | 57.5 | 106                          |

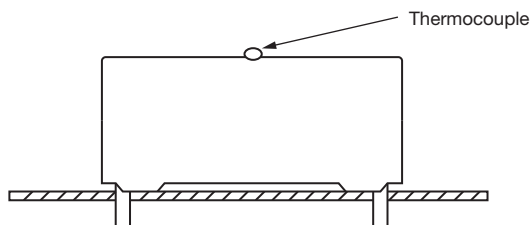
## POWER DISSIPATION AND MAXIMUM COMPONENT TEMPERATURE RISE

The power dissipation must be limited in order not to exceed the maximum allowed component temperature rise as a function of the free air ambient temperature.

The component temperature rise ( $\Delta T$ ) can be measured or calculated by  $\Delta T = P/G$ :

- $\Delta T = T_{\text{case}} - T_{\text{ambient}} = \text{Case temperature rise (°C)}$  with a maximum of 15 °C at rated temperature.
- $P = I_{\text{RMS}}^2 \times \text{ESR} = \text{Power dissipation of the component (mW)}$
- $G = \text{Heat conductivity of the component (mW/°C)}$

## MEASURING THE COMPONENT TEMPERATURE



The case temperature is measured in unloaded condition ( $T_{\text{amb}}$ ) and loaded condition ( $T_{\text{C}}$ ).

To avoid external thermal radiation or convection, the capacitor must be tested in a closed area, free from air circulation.

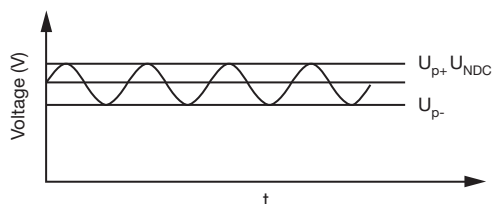
## APPLICATION NOTES AND LIMITING CONDITIONS

These capacitors are not suitable for mains applications as across-the-line capacitors without additional protection. These mains applications are strictly regulated in safety standards and therefore electromagnetic interference suppression capacitors conforming the standards must be used.

To select the capacitor for a certain application, the following conditions must be checked:

1. The continuous peak voltage ( $U_{p+}$ ) shall not exceed the DC voltage rating ( $U_{NDC}$ )
2. The peak-to-peak ripple voltage ( $U_{pp}$ ) shall not be greater than  $0.2 \times U_{NDC}$

Non reversing recurrent waveform



3. For capacitors connected in parallel, normally the proof voltage and possibly the rated voltage must be reduced. For information depending of the capacitance value and the number of parallel connections contact [dc-film@vishay.com](mailto:dc-film@vishay.com).
4. The voltage peak slope ( $dU/dt$ ) shall not exceed the pulse slope at the DC voltage rating.  
If the pulse voltage is lower than the rated DC voltage, the rated voltage pulse slope may be multiplied by  $U_{NDC}$  and divided by the applied voltage.

For all other pulses following equation must be fulfilled:

$$2 \times \int_0^T \left( \frac{dU}{dt} \right)^2 \times dt < U_{NDC} \times \left( \frac{dU}{dt} \right)_{rated}$$

T is the pulse duration

| MAXIMUM REPETITIVE PEAK VOLTAGES |                          |
|----------------------------------|--------------------------|
| REPETITIVE SURGE VOLTAGE         | MAXIMUM DURATION PER DAY |
| $1.1 \times U_{NDC}$             | 30 % of on load duration |
| $1.15 \times U_{NDC}$            | 30 min                   |
| $1.2 \times U_{NDC}$             | 5 min                    |
| $1.3 \times U_{NDC}$             | 1 min                    |
| $1.5 \times U_{NDC}$             | 110 ms                   |

### Note

- The capacitor unit may be subjected to the following surge without any significant reduction of lifetime expectancy



| INSPECTION REQUIREMENTS                                    |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| SUB-CLAUSE NUMBER AND TEST                                 | CONDITIONS                                                                                                                                                                                                                                                                                                                                                                                                  | PERFORMANCE REQUIREMENTS                                                                                       |
| <b>ROUTINE TEST - FINAL INSPECTION</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |
| 5.14.2-1<br>External inspection, visual examination        |                                                                                                                                                                                                                                                                                                                                                                                                             | Legible marking as specified                                                                                   |
| 5.14.2-2<br>Dimensions                                     |                                                                                                                                                                                                                                                                                                                                                                                                             | See specification drawing                                                                                      |
| 5.3-1<br>Capacitance                                       | 1 kHz at room temperature                                                                                                                                                                                                                                                                                                                                                                                   | See specific reference data                                                                                    |
| 5.3-2<br>tan $\delta$                                      | 1 kHz at room temperature<br>10 kHz at room temperature                                                                                                                                                                                                                                                                                                                                                     | See specific reference data                                                                                    |
| 5.5.1-2<br>Voltage test between terminals                  | 1.5 x $U_{NDC}$ at $T_{amb}$<br>Duration: 10 s                                                                                                                                                                                                                                                                                                                                                              | No visible damage or puncture<br>No flashover                                                                  |
| 5.7<br>Insulation resistance                               | $U_{NDC} \leq 500$ V measuring voltage 100 V at room temperature<br>$U_{NDC} > 500$ V measuring voltage 500 V at room temperature<br>Duration: 1 min                                                                                                                                                                                                                                                        | See specific reference data                                                                                    |
| <b>TYPE TESTS</b>                                          |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |
| 5.14.2<br>External inspection                              | Check for finish, marking and overall dimensions                                                                                                                                                                                                                                                                                                                                                            | Legible marking and finish as specified<br>Dimensions: See specification drawing                               |
| 5.14.0<br>Initial measurements                             | Capacitance at 1 kHz<br>tan $\delta$ at 10 kHz                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |
| 5.14.1-1/4<br>Robustness of terminations<br>IEC 60068-2-21 | Tensile $U_{a1}$<br>Wire diameter    Section modulus    Load<br>$\leq 0.8$ mm $\leq 0.5$ mm <sup>2</sup> 10 N<br>$\leq 1.25$ mm $\leq 1.2$ mm <sup>2</sup> 20 N<br>Duration: 10 s $\pm$ 1 s<br>Bending, $U_b$ method 1<br>Wire diameter    Section modulus    Load<br>$\leq 0.8$ mm $\leq 0.5$ mm <sup>2</sup> 10 N<br>$\leq 1.25$ mm $\leq 1.2$ mm <sup>2</sup> 20 N<br>4 x 90°, duration: 2 s to 3 s/bend |                                                                                                                |
| 5.14.1-6<br>Resistance to soldering heat<br>IEC 60068-2-20 | No pre-drying, method 1A<br>Solder bath: 260 °C $\pm$ 5 °C<br>Duration: 10 s $\pm$ 1 s                                                                                                                                                                                                                                                                                                                      |                                                                                                                |
| 5.14.4<br>Final measurements                               | Capacitance<br>tan $\delta$                                                                                                                                                                                                                                                                                                                                                                                 | $ \Delta C/C  \leq 0.5$ %<br>Increase of tan $\delta \leq 0.0050$<br>compared to the values measured in 5.14.0 |
| 5.14.0<br>Initial measurements                             | Capacitance at 1 kHz<br>tan $\delta$ at 10 kHz                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |
| 5.14.3-1<br>Vibration<br>IEC 60068-2-6                     | 10 Hz to 55 Hz; amplitude $\pm 0.35$ mm or acceleration 98 m/s <sup>2</sup><br>Test duration: 10 frequency cycles<br>3 axes offset from each other by 90°<br>1 octave/min<br>Visual examination                                                                                                                                                                                                             | No visible damage                                                                                              |



| <b>INSPECTION REQUIREMENTS</b>                                                                                                                       |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUB-CLAUSE NUMBER AND TEST</b>                                                                                                                    | <b>CONDITIONS</b>                                                                                                                                                                                                                                                                                                                   | <b>PERFORMANCE REQUIREMENTS</b>                                                                                                            |
| 5.14.3-2<br>Shock or impact<br>IEC 60068-2-6<br><br>5.14.4<br>Final measurements                                                                     | Pulse shape: half sine<br>Acceleration: 490 m/s <sup>2</sup><br>Duration of pulse: 11 ms<br>Visual examination<br><br>Capacitance<br>tan $\delta$                                                                                                                                                                                   | No visible damage<br><br>$ \Delta C/C  \leq 0.5\%$<br>Increase of tan $\delta \leq 0.0050$<br>compared to the values measured in 5.14.0    |
| 5.5.3-1<br>Initial measurements<br><br>5.5.3-2<br>Voltage test between terminals<br><br>5.5.3-3<br>Final measurements                                | Capacitance at 1 kHz<br>tan $\delta$ at 10 kHz<br>R insulation<br><br>1.5 x U <sub>NDC</sub> at T <sub>amb</sub><br>Duration: 60 s<br><br>Capacitance<br>tan $\delta$<br>R insulation                                                                                                                                               | $ \Delta C/C  \leq 0.5\%$<br>Increase of tan $\delta \leq 0.0050$<br>R insulation $\leq 50\%$ of specified values                          |
| 5.9-1<br>Initial measurements<br><br>5.9-2<br>Surge discharge test<br><br>5.9-2<br>Voltage test between terminals<br><br>5.9-3<br>Final measurements | Capacitance at 1 kHz<br>tan $\delta$ at 10 kHz<br><br>1.1 x U <sub>NDC</sub><br>Number of discharges: 5<br>Time lapse: every 2 min (10 min total)<br><br>Within 5 min after the surge<br>discharge test<br>Duration: 60 s<br>1.5 x U <sub>NDC</sub> at T <sub>amb</sub><br><br>Capacitance<br>tan $\delta$ at 10 kHz                | $ \Delta C/C  \leq 1.0\%$<br>tan $\delta \leq 1.2 \times \text{initial tan } \delta + 0.0001$<br>compared to the values measured in 5.9-1  |
| 5.11-1<br>Initial measurements<br><br>5.11-2<br>Self healing test<br><br>5.11-3<br>Final measurements                                                | Capacitance at 1 kHz<br>tan $\delta$ at 10 kHz<br><br>1.5 x U <sub>NDC</sub><br>Duration: 10 s<br>Number of clearings $\leq 5$<br>Clearing = Voltage drop of 5 %<br>increase the voltage at 100 V/s till<br>5 clearings occur<br>with a max. of 2.5 x U <sub>NDC</sub><br>for a duration of 10 s<br><br>Capacitance<br>tan $\delta$ | $ \Delta C/C  \leq 0.5\%$<br>tan $\delta \leq 1.2 \times \text{initial tan } \delta + 0.0001$<br>compared to the values measured in 5.11-1 |



| <b>INSPECTION REQUIREMENTS</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUB-CLAUSE NUMBER AND TEST</b>                                                                                                                                                                                                                                      | <b>CONDITIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PERFORMANCE REQUIREMENTS</b>                                                                                                                                                                                          |
| <p>5.13-0<br/>Initial measurements</p> <p>5.13-1<br/>Change of temperature according to IEC 60682-2-14</p> <p>5.13-2<br/>Damp heat steady state according to IEC 60682-2-78</p> <p>5.5.3-2<br/>Voltage test between terminals</p> <p>5.13-3<br/>Final measurements</p> | <p>Capacitance at 1 kHz<br/>tan <math>\delta</math> at 10 kHz</p> <p>Test Nb<br/><math>T_{max.} = 85\text{ }^{\circ}\text{C}</math><br/><math>T_{min.} = -40\text{ }^{\circ}\text{C}</math><br/>Transition time: 1 h, equivalent to 1 <math>^{\circ}\text{C}/\text{min}</math><br/>5 cycles</p> <p>Test Ca<br/><math>T_{max.} = 40\text{ }^{\circ}\text{C} + 2\text{ }^{\circ}\text{C}</math><br/><math>RH = 93\% \pm 3\%</math><br/>Duration: 56 days</p> <p>1.5 x <math>U_{NDC}</math> at ambient temperature<br/>Duration: 60 s</p> <p>Visual examination</p> <p>Capacitance<br/>tan <math>\delta</math> at 1 <math>V_{RMS}</math> 10 kHz</p> | <p>No puncturing or flashover<br/>Self healing punctures are permitted</p> <p><math> \Delta C/C  \leq 2.0\%</math><br/>Increase of tan <math>\delta \leq 0.0150</math><br/>compared to the values measured in 5.13-0</p> |
| <p>5.10.0<br/>Initial measurements</p> <p>5.10-1<br/>Thermal stability test under overload conditions</p> <p>5.10-2<br/>Final measurements</p>                                                                                                                         | <p>Capacitance at 1 kHz<br/>tan <math>\delta</math> at 10 kHz</p> <p>Natural cooling <math>T_{amb} \pm 5\text{ }^{\circ}\text{C}</math><br/><math>1.21 \times P_{max.} = (U_2/2) \times W_2 \times C \times \tan \delta =</math><br/><math>1.21 \times (I_{max.}^2 / W_2 \times C) \times \tan \delta</math><br/>with <math>W_2 = 2 \times p \times f_2</math> for <math>I_{max.}</math><br/>(see specific reference data)<br/><math>f_2 = 10\text{ kHz}</math><br/>Duration: 48 h</p> <p>Measure the temperature every 1.5 h<br/>during the last 6 h</p>                                                                                        | <p>Temperature rise <math>\leq 1\text{ }^{\circ}\text{C}</math><br/><math> \Delta C/C  \leq 2.0\%</math><br/>Increase of tan <math>\delta \leq 1.2 \times \text{initial } \delta + 0.0150</math></p>                     |
| <p>5.12<br/>Resonance frequency measurement</p>                                                                                                                                                                                                                        | <p>Impedance analyser at <math>T_{amb}</math></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>&lt; 0.9 times the value as specified in typical curve "Resonant frequency" of this specification</p>                                                                                                                 |

| INSPECTION REQUIREMENTS                                        |                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| SUB-CLAUSE NUMBER AND TEST                                     | CONDITIONS                                                                                                                                                                                                                                                                                                                     | PERFORMANCE REQUIREMENTS                                                                                        |
| 5.15-0<br>Initial measurements                                 | Capacitance at 1 kHz<br>tan $\delta$ at 10 kHz                                                                                                                                                                                                                                                                                 | $ \Delta C/C  \leq 3.0 \%$<br>Increase of tan $\delta \leq 0.0150$<br>compared to the values measured in 5.15-0 |
| 5.15-1<br>Endurance test between terminals                     | Sequence:<br>1.3 x U <sub>NDC</sub> at 85 °C<br>1.3 x U <sub>OPDC</sub> at 105 °C<br><br>Duration: 500 h<br><br>1000 x discharge<br>at 1.4 x I <sub>peak</sub> (maximum respective peak<br>current in continuous operation)<br><br>1.3 x U <sub>NDC</sub> at 85 °C<br>1.3 x U <sub>OPDC</sub> at 105 °C<br><br>Duration: 500 h |                                                                                                                 |
| 5.15-2<br>Final measurement                                    | Capacitance<br>tan $\delta$                                                                                                                                                                                                                                                                                                    |                                                                                                                 |
| 5.16.3-0<br>Initial measurements                               | Capacitance at 1 kHz                                                                                                                                                                                                                                                                                                           | Audible healings or check healings with<br>oscilloscope                                                         |
| 5.16.3-1<br>Desctruction test sequence<br>High DC voltage test | T <sub>max.</sub> = 85 °C<br>Product enveloped with cheese cloth<br>3 x U <sub>NDC</sub> for DC voltage<br>until repetitive product healings occur<br>Duration = 15 min                                                                                                                                                        |                                                                                                                 |
| High AC voltage test                                           | AC RMS voltage = U <sub>NDC</sub> /2 $\sqrt{2}$<br>with minimum of 250 V <sub>AC</sub><br>Duration = 5 min<br>Repeat destruction sequence 3 x                                                                                                                                                                                  |                                                                                                                 |
| 5.16.3-2<br>Final measurements                                 | Visual examination                                                                                                                                                                                                                                                                                                             | No puncturing, flashover or burning of the<br>cheese cloth<br>Self healing punctures are permitted              |

## Note

- Sub-clause numbers of tests and performance requirements refer to the “Sectional Specification, IEC-publication 61071”



## Disclaimer

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## Material Category Policy

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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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