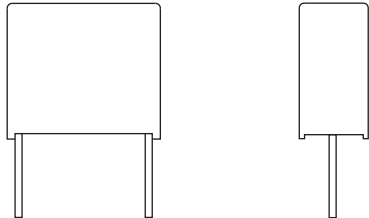




## AC and Pulse Double Metallized Polypropylene Film Capacitors MMKP Radial Potted Type



### FEATURES

- 7.5 mm to 37.5 mm lead pitch
- 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

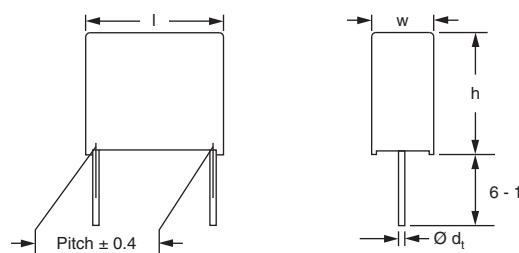
- High voltage, high current and high pulse operations
- Protection circuits in SMPS's, snubber and electronic ballast circuits

| QUICK REFERENCE DATA                      |   |
|---|---|
| Rated DC voltage                          | 250 V <sub>DC</sub> ; 400 V <sub>DC</sub> ; 630 V <sub>DC</sub> ; 1000 V <sub>DC</sub> ; 1600 V <sub>DC</sub> ; 2000 V <sub>DC</sub>                    |
| Rated AC voltage                          | 160 V <sub>AC</sub> ; 220 V <sub>AC</sub> ; 250 V <sub>AC</sub> ; 400 V <sub>AC</sub> ; 600 V <sub>AC</sub> ; 650 V <sub>AC</sub> ; 700 V <sub>AC</sub> |
| Capacitance range                         | 470 pF to 6.8 μF  |
| Capacitance tolerance                     | ± 5 %   |
| Climatic testing class acc. to EN 60068-1 | 55/100/56   |
| Maximum application temperature           | 100 °C  |
| Reference standards                       | IEC 60384-16  |
| Dielectric                                | Polypropylene film  |
| Electrodes                                | Metallized  |
| Construction                              | Internal series construction  |
| Encapsulation                             | Plastic case, epoxy resin sealed, flame retardant, UL-class 94 V-0  |
| Leads                                     | Tinned wire   |
| Marking                                   | C-value; tolerance; rated voltage; manufacturer's type; code for dielectric material; manufacturer location; manufacturer's logo; year and week         |

### Note

- For more detailed data and test requirements, contact [dc-film@vishay.com](mailto:dc-film@vishay.com)

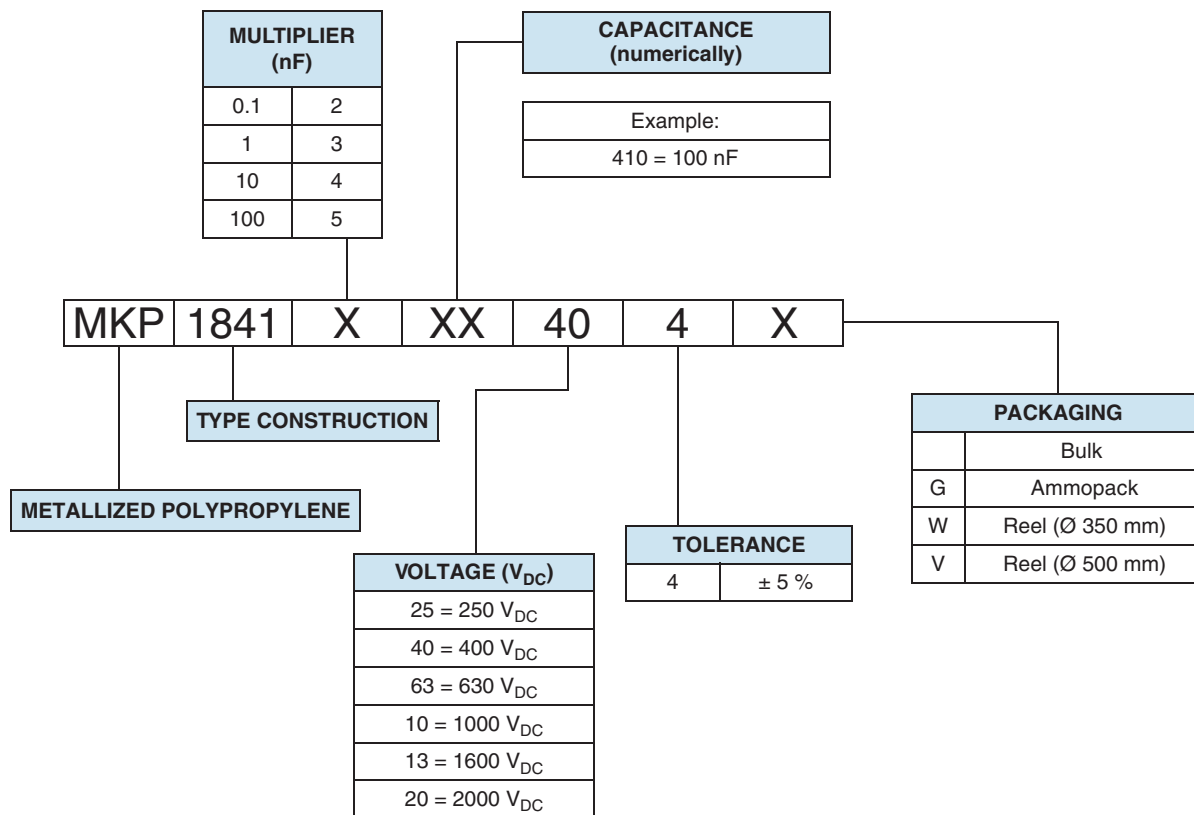
### DIMENSIONS in millimeters



| PITCH        | w      | Ø d <sub>t</sub> |
|--------------|--------|------------------|
| 7.5          | -      | 0.5 ± 0.05       |
| 10           | -      | 0.6 ± 0.06       |
| 15           | ≤ 6    | 0.6 ± 0.06       |
| 15           | > 6    | 0.8 ± 0.08       |
| 22.5 to 27.5 | -      | 0.8 ± 0.08       |
| 37.5         | < 16.0 | 0.8 ± 0.08       |
| 37.5         | ≥ 16.0 | 1.0 ± 0.1        |



**COMPOSITION OF CATALOG NUMBER**



**Note**

- For detailed tape specifications refer to “Packaging Information” [www.vishay.com/doc?28139](http://www.vishay.com/doc?28139) or end of catalog

| SPECIFIC REFERENCE DATA   |   |                     |                     |                        |                        |                                |                         |
|---|---|---------------------|---------------------|------------------------|------------------------|--------------------------------|-------------------------|
| DESCRIPTION   |   |                     |                     |                        | VALUE                  |                                |                         |
| Tangent of loss angle:<br>C ≤ 0.1 μF<br>0.1 μF < C ≤ 1.0 μF<br>C > 1.0 μF               |   |                     |                     |                        | at 1 kHz               | at 10 kHz                      | at 100 kHz              |
|   |   |                     |                     |                        | ≤ 5 x 10 <sup>-4</sup> | ≤ 10 x 10 <sup>-4</sup>        | ≤ 15 x 10 <sup>-4</sup> |
|   |   |                     |                     |                        | ≤ 5 x 10 <sup>-4</sup> | ≤ 10 x 10 <sup>-4</sup>        | -                       |
|   |   |                     |                     | ≤ 5 x 10 <sup>-4</sup> | -                      | -                              |                         |
| PITCH (mm)  | MAXIMUM PULSE RISE TIME (dU/dt) <sub>R</sub> [V/μs] |                     |                     |                        |                        |                                |                         |
|   | 160 V <sub>DC</sub>                                 | 250 V <sub>DC</sub> | 400 V <sub>DC</sub> | 630 V <sub>DC</sub>    | 1000 V <sub>DC</sub>   | 1600 V <sub>DC</sub>           | 2000 V <sub>DC</sub>    |
| 7.5   | 1800  | 2200                | 3600                | 4500                   | -                      | -                              | -                       |
| 10  | 820   | 1140                | 1840                | 2280                   | -                      | -                              | -                       |
| 15  | 410   | 560                 | 910                 | 3430                   | 6600                   | 11 100                         | 20 300                  |
| 22.5  | 260   | 320                 | 520                 | 2120                   | 2800                   | 3800                           | 6200                    |
| 27.5  | 202   | 240                 | 400                 | 1524                   | 2000                   | 2680                           | 4200                    |
| 37.5  | 140   | 170                 | 280                 | 980                    | 1280                   | 1690                           | 2600                    |
| R between leads, for C ≤ 0.33 μF at 100 V; 1 min  |   |                     |                     |                        |                        | > 100 000 MΩ                   |                         |
| R between leads and case: 100 V; 1 min  |   |                     |                     |                        |                        | > 30 000 MΩ                    |                         |
| Withstanding (DC) voltage between leads and case  |   |                     |                     |                        |                        | 2840 V; 1 min                  |                         |
| Withstanding (DC) voltage (cut off current 10 mA) <sup>(1)</sup> ; rise time ≤ 1000 V/s |   |                     |                     |                        |                        | 1.6 x U <sub>RDC</sub> ; 1 min |                         |
| Maximum application temperature   |   |                     |                     |                        |                        | 100 °C                         |                         |

**Note**

- <sup>(1)</sup> See “Voltage Proof Test for Metalized Film Capacitors”: [www.vishay.com/doc?28169](http://www.vishay.com/doc?28169)



| ELECTRICAL DATA         |              |                     |                 |                 |                           |      |
|-------------------------|--------------|---------------------|-----------------|-----------------|---------------------------|------|
| U <sub>RDC</sub><br>(V) | CAP.<br>(μF) | CAPACITANCE<br>CODE | VOLTAGE<br>CODE | V <sub>AC</sub> | DIMENSIONS<br>(w x h x l) | PCM  |
| 160                     | 0.010        | 310                 | 16              | 100             | 4.5 x 9.5 x 10.0          | 7.5  |
|                         | 0.015        | 315                 |                 |                 | 4.5 x 9.5 x 10.0          | 7.5  |
|                         | 0.022        | 322                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.033        | 333                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.047        | 347                 |                 |                 | 5.0 x 11.0 x 12.5         | 10   |
|                         | 0.068        | 368                 |                 |                 | 6.0 x 12.0 x 12.5         | 10   |
|                         | 0.10         | 410                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.15         | 415                 |                 |                 | 6.0 x 12.0 x 17.5         | 15   |
|                         | 0.22         | 422                 |                 |                 | 7.0 x 13.5 x 17.5         | 15   |
|                         | 0.33         | 433                 |                 |                 | 8.5 x 15.0 x 17.5         | 15   |
|                         | 0.47         | 447                 |                 |                 | 8.5 x 18.0 x 26.0         | 22.5 |
|                         | 0.68         | 468                 |                 |                 | 10.0 x 19.5 x 26.0        | 22.5 |
|                         | 1.0          | 510                 |                 |                 | 12.0 x 22.0 x 26.0        | 22.5 |
|                         | 1.5          | 515                 |                 |                 | 13.0 x 23.0 x 31.5        | 27.5 |
|                         | 2.2          | 522                 |                 |                 | 18.0 x 28.0 x 31.5        | 27.5 |
|                         | 3.3          | 533                 |                 |                 | 21.0 x 31.0 x 31.0        | 27.5 |
| 4.7                     | 547          | 30.0 x 45.0 x 42.0  | 37.5            |                 |                           |      |
| 250                     | 0.0068       | 268                 | 25              | 160             | 4.0 x 9.0 x 10.0          | 7.5  |
|                         | 0.010        | 310                 |                 |                 | 4.5 x 9.5 x 10.0          | 7.5  |
|                         | 0.015        | 315                 |                 |                 | 4.5 x 9.5 x 10.0          | 7.5  |
|                         | 0.022        | 322                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.033        | 333                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.047        | 347                 |                 |                 | 5.0 x 11.0 x 12.5         | 10   |
|                         | 0.068        | 368                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.10         | 410                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.15         | 415                 |                 |                 | 6.0 x 12.0 x 17.5         | 15   |
|                         | 0.22         | 422                 |                 |                 | 8.5 x 15.0 x 17.5         | 15   |
|                         | 0.33         | 433                 |                 |                 | 7.0 x 16.5 x 26.0         | 22.5 |
|                         | 0.47         | 447                 |                 |                 | 8.5 x 18.0 x 26.0         | 22.5 |
|                         | 0.68         | 468                 |                 |                 | 10.0 x 19.5 x 26.0        | 22.5 |
|                         | 1.0          | 510                 |                 |                 | 11.0 x 21.0 x 31.0        | 27.5 |
|                         | 1.5          | 515                 |                 |                 | 13.0 x 23.0 x 31.0        | 27.5 |
|                         | 2.2          | 522                 |                 |                 | 18.0 x 28.0 x 31.5        | 27.5 |
| 3.3                     | 533          | 21.0 x 31.0 x 31.0  | 27.5            |                 |                           |      |
| 4.7                     | 547          | 30.0 x 45.0 x 42.0  | 37.5            |                 |                           |      |
| 400                     | 0.0047       | 247                 | 40              | 220             | 4.5 x 9.5 x 10.0          | 7.5  |
|                         | 0.0068       | 268                 |                 |                 | 5.0 x 10.5 x 10.0         | 7.5  |
|                         | 0.010        | 310                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.015        | 315                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.022        | 322                 |                 |                 | 4.0 x 10.0 x 12.5         | 10   |
|                         | 0.033        | 333                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.047        | 347                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.068        | 368                 |                 |                 | 6.0 x 12.0 x 17.5         | 15   |
|                         | 0.10         | 410                 |                 |                 | 7.0 x 13.5 x 17.5         | 15   |
|                         | 0.15         | 415                 |                 |                 | 7.0 x 16.5 x 26.0         | 22.5 |
|                         | 0.22         | 422                 |                 |                 | 8.5 x 18.0 x 26.0         | 22.5 |
|                         | 0.33         | 433                 |                 |                 | 12.0 x 22.0 x 26.0        | 22.5 |
|                         | 0.47         | 447                 |                 |                 | 13.0 x 23.0 x 31.0        | 27.5 |
|                         | 0.68         | 468                 |                 |                 | 15.0 x 25.0 x 31.5        | 27.5 |
|                         | 1.0          | 510                 |                 |                 | 14.5 x 24.5 x 41.5        | 37.5 |
|                         | 1.5          | 515                 |                 |                 | 16.0 x 28.5 x 41.5        | 37.5 |
| 2.2                     | 522          | 18.5 x 35.5 x 43.0  | 37.5            |                 |                           |      |



| ELECTRICAL DATA         |              |                     |                 |                 |                           |      |
|-------------------------|--------------|---------------------|-----------------|-----------------|---------------------------|------|
| U <sub>RDC</sub><br>(V) | CAP.<br>(μF) | CAPACITANCE<br>CODE | VOLTAGE<br>CODE | V <sub>AC</sub> | DIMENSIONS<br>(w x h x l) | PCM  |
| 630                     | 0.00047      | 147                 | 63              | 250             | 3.0 x 8.5 x 10.0          | 7.5  |
|                         | 0.00068      | 168                 |                 |                 | 3.0 x 8.5 x 10.0          | 7.5  |
|                         | 0.0010       | 210                 |                 |                 | 3.0 x 8.5 x 10.0          | 7.5  |
|                         | 0.0015       | 215                 |                 |                 | 3.0 x 8.5 x 10.0          | 7.5  |
|                         | 0.0022       | 222                 |                 |                 | 3.0 x 8.5 x 10.0          | 7.5  |
|                         | 0.0033       | 233                 |                 |                 | 4.0 x 9.0 x 10.0          | 7.5  |
| 630                     | 0.0047       | 247                 | 63              | 400             | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0068       | 268                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.010        | 310                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.015        | 315                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.022        | 322                 |                 |                 | 6.0 x 12.0 x 17.5         | 15   |
|                         | 0.033        | 333                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.047        | 347                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.068        | 368                 |                 |                 | 7.0 x 16.5 x 26.0         | 22.5 |
|                         | 0.10         | 410                 |                 |                 | 9.0 x 19.0 x 31.0         | 27.5 |
|                         | 0.15         | 415                 |                 |                 | 11.0 x 21.0 x 31.0        | 27.5 |
|                         | 0.22         | 422                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.33         | 433                 |                 |                 | 14.5 x 24.5 x 41.5        | 37.5 |
|                         | 0.47         | 447                 |                 |                 | 14.5 x 24.5 x 41.5        | 37.5 |
|                         | 0.68         | 468                 |                 |                 | 16.0 x 28.5 x 41.5        | 37.5 |
| 1000                    | 0.0022       | 222                 | 10              | 600             | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0033       | 233                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0047       | 247                 |                 |                 | 6.0 x 12.0 x 17.5         | 15   |
|                         | 0.0068       | 268                 |                 |                 | 7.0 x 13.5 x 17.5         | 15   |
|                         | 0.010        | 310                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.015        | 315                 |                 |                 | 7.0 x 16.5 x 26.0         | 22.5 |
|                         | 0.022        | 322                 |                 |                 | 8.5 x 18.0 x 26.0         | 22.5 |
|                         | 0.033        | 333                 |                 |                 | 10.0 x 19.5 x 26.0        | 22.5 |
|                         | 0.047        | 347                 |                 |                 | 11.0 x 21.0 x 31.0        | 27.5 |
|                         | 0.068        | 368                 |                 |                 | 13.0 x 23.0 x 31.0        | 27.5 |
|                         | 0.10         | 410                 |                 |                 | 15.0 x 25.0 x 31.5        | 27.5 |
|                         | 0.15         | 415                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.22         | 422                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.33         | 433                 |                 |                 | 14.5 x 24.5 x 41.5        | 37.5 |
| 0.47                    | 447          | 16.0 x 28.5 x 41.5  | 37.5            |                 |                           |      |



| ELECTRICAL DATA         |              |                     |                 |                 |                           |      |
|-------------------------|--------------|---------------------|-----------------|-----------------|---------------------------|------|
| U <sub>RDC</sub><br>(V) | CAP.<br>(μF) | CAPACITANCE<br>CODE | VOLTAGE<br>CODE | V <sub>AC</sub> | DIMENSIONS<br>(w x h x l) | PCM  |
| 1600                    | 0.0010       | 210                 | 13              | 650             | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0015       | 215                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0022       | 222                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0033       | 233                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0047       | 247                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0068       | 268                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.010        | 310                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.015        | 315                 |                 |                 | 7.0 x 16.5 x 26.0         | 22.5 |
|                         | 0.022        | 322                 |                 |                 | 8.5 x 18.0 x 26.0         | 22.5 |
|                         | 0.033        | 333                 |                 |                 | 9.0 x 19.0 x 31.0         | 27.5 |
|                         | 0.047        | 347                 |                 |                 | 11.0 x 21.0 x 31.0        | 27.5 |
|                         | 0.068        | 368                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.10         | 410                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.15         | 415                 |                 |                 | 16.0 x 28.5 x 41.5        | 37.5 |
|                         | 0.22         | 422                 |                 |                 | 18.0 x 32.5 x 41.5        | 37.5 |
| 2000                    | 0.00047      | 147                 | 20              | 700             | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.00068      | 168                 |                 |                 | 5.0 x 11.0 x 17.5         | 15   |
|                         | 0.0010       | 210                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0015       | 215                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0022       | 222                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0033       | 233                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0047       | 247                 |                 |                 | 6.0 x 15.5 x 26.0         | 22.5 |
|                         | 0.0068       | 268                 |                 |                 | 7.0 x 16.5 x 26.0         | 22.5 |
|                         | 0.010        | 310                 |                 |                 | 8.5 x 18.0 x 26.0         | 22.5 |
|                         | 0.015        | 315                 |                 |                 | 9.0 x 19.0 x 31.0         | 27.5 |
|                         | 0.022        | 322                 |                 |                 | 11.0 x 21.0 x 31.0        | 27.5 |
|                         | 0.033        | 333                 |                 |                 | 11.0 x 21.0 x 31.0        | 27.5 |
|                         | 0.047        | 347                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.068        | 368                 |                 |                 | 12.5 x 22.5 x 41.5        | 37.5 |
|                         | 0.10         | 410                 |                 |                 | 14.5 x 24.5 x 41.5        | 37.5 |

| RECOMMENDED PACKAGING |                      |                    |                          |                           |           |                     |             |
|-----------------------|----------------------|--------------------|--------------------------|---------------------------|-----------|---------------------|-------------|
| LETTER<br>CODE        | TYPE OF<br>PACKAGING | HEIGHT (H)<br>(mm) | REEL<br>DIAMETER<br>(mm) | ORDERING CODE<br>EXAMPLES | PCM<br>15 | PCM<br>22.5 TO 27.5 | PCM<br>37.5 |
| G                     | Ammo                 | 18.5               | S <sup>(1)</sup>         | MKP1841315635G            | X         | -                   | -           |
| W                     | Reel                 | 18.5               | 350                      | MKP1841315635W            | X         | -                   | -           |
| V                     | Reel                 | 18.5               | 500                      | MKP1841410105V            | X         | X                   | -           |
| G                     | Ammo                 | 18.5               | L <sup>(2)</sup>         | MKP1841410105G            | -         | X                   | -           |
| -                     | Bulk                 | -                  | -                        | MKP1841447105             | X         | X                   | X           |

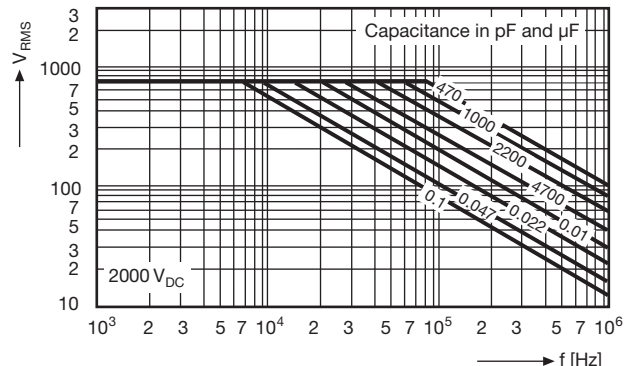
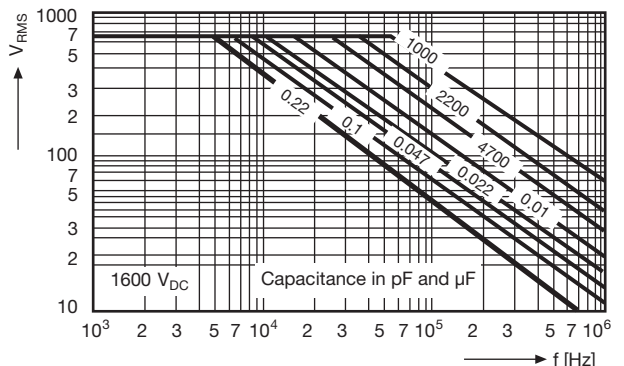
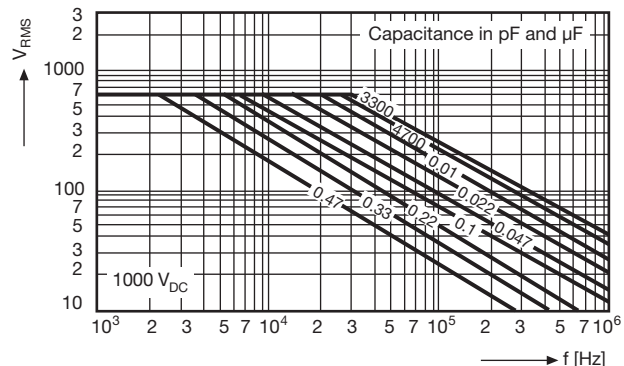
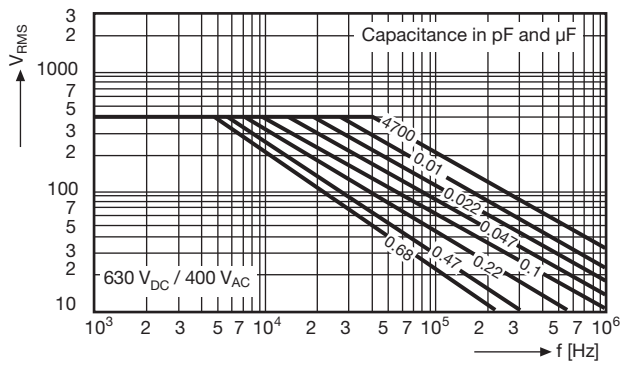
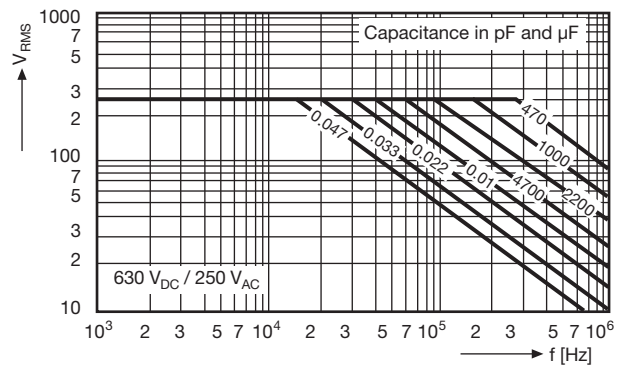
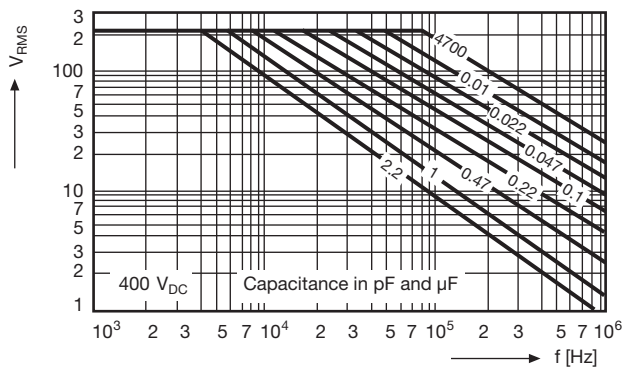
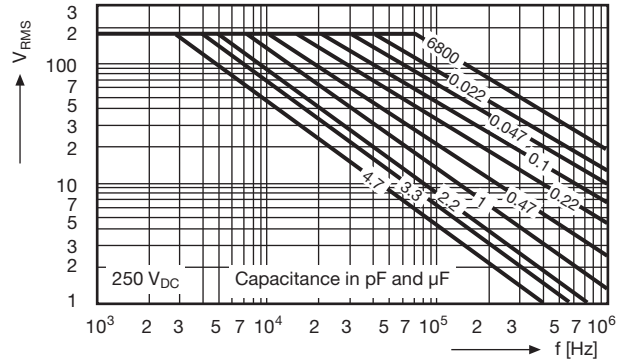
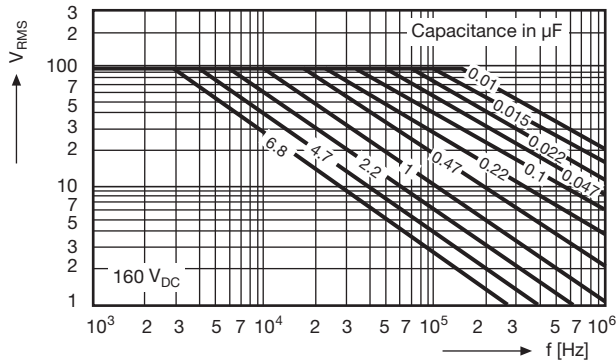
**Notes**

<sup>(1)</sup> S = box size 55 mm x 210 mm x 340 mm (W x H x L)

<sup>(2)</sup> L = box size 60 mm x 510 mm x 360 mm (W x H x L)



**PERMISSIBLE AC VOLTAGE VS. FREQUENCY**





## Disclaimer

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## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**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.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**



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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