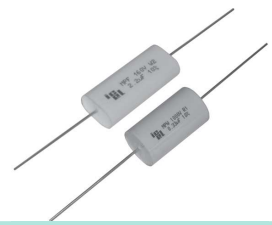


MPW - MPF

Metallized polypropylene film capacitor

MKP - Low dissipation general purpose



Main applications

Blocking, filtering, bypassing, timing, coupling, decoupling, audio applications, general applications in electronics. Low power switching applications. Medium-low pulse operation

Dielectric

Polypropylene

Electrodes

Vacuum deposited metal layers

Coating

UL 510 / CSA TIL I-26 polyester tape wrapping; UL 94V-0 resin end fill. Flame retardant execution

Construction

Extended metallized film (refer to general technical information). Internal series connection for $U_r \geq 1000V_{dc}$. Non inductive type

Leads

Tinned copper wire (lead free)

Reference standard

IEC 60384/16, IEC 60068, RoHS compliant

Climatic category

55/100/56 (IEC 60068/1), FMD (DIN 40040)

Operating temperature range

-55°...+105°C

Rated capacitance (Cr)

1000pF to 33 μ F, In compliance with IEC 60063, E6 series. Refer to article table

Capacitance tolerance (at 1kHz)

$\pm 10\%$ (code=K), $\pm 5\%$ (code=J), $\pm 20\%$ (code=M). Other tolerances upon request

Capacitance temperature coefficient

Refer to graphs in general technical information

Long term stability (at 1 kHz)

Capacitance variation $\leq \pm 1\%$ after a period of 2 years at standard environmental conditions

Rated voltage (Ur)

160, 250, 400, 630, 1000, 1500 Vdc
(permissible AC voltage at 60Hz: 90, 200, 220, 250, 450, 600Vac)

Category voltage (Uc)

$U_c = U_r$ at +85°C; $U_c = 0,8 \times U_r$ at +100°C

Temperature derated voltage

For $T > +85^\circ C$, U_r must be decreased 1,25% for every °C exceeding +85°C

Self inductance

$\leq 1nH/mm$ of capacitor and leads length used for connection

Maximum pulse rise time

Refer to article table. The pulse characteristic K_o depends on the voltage waveform. In any case the value given in the article table must not be exceeded.

Dissipation factor (DF), max.

($tg\delta \times 10^{-4}$, measured at 25 $\pm 5^\circ C$)

| Freq. | $Cr \leq 0.1\mu F$ | $0.1\mu F < Cr \leq 1\mu F$ | $Cr > 1\mu F$ |
|--------|--------------------|-----------------------------|---------------|
| 1kHz | 6 | 6 | 6 |
| 10kHz | 10 | 20 | - |
| 100kHz | 30 | - | - |

Insulation resistance (IR)

Measured between terminals, at 25 $\pm 5^\circ C$, after 1 minute of electrification at 100Vdc

| Cr | IR |
|------------------|-------------------|
| $\leq 0,33\mu F$ | $\geq 100G\Omega$ |
| $> 0,33\mu F$ | $\geq 30000s$ |

Test voltage between terminals (Ut)

$1,6 \times U_r$ (DC) applied for 2s at 25 $\pm 5^\circ C$ (1 minute for type test)

Damp heat test (steady state)

Test conditions:

Temperature= +40 $\pm 2^\circ C$

Relative humidity=93 $\pm 2\%$

Test duration= 56 days

Performance:

Capacitance change $\leq \pm 1\%$

DF change ≤ 0.0010 at 10kHz for $Cr \leq 1\mu F$

DF change ≤ 0.0010 at 1kHz for $Cr > 1\mu F$

IR $\geq 50\%$ of initial limit value

Endurance test

Test conditions:

Temperature= +85 $\pm 2^\circ C$

Test duration= 2000h

Voltage applied= $1,25 \times U_r$ (DC)

Performance:

Capacitance change $\leq \pm 1\%$

DF change ≤ 0.0010 at 10kHz for $Cr \leq 1\mu F$

DF change ≤ 0.0010 at 1kHz for $Cr > 1\mu F$

IR $\geq 50\%$ of initial limit value

Resistance to soldering heat test

Test conditions:

Solder bath temperature= +260 $\pm 5^\circ C$

Dipping time (with heat screen)= 10 $\pm 1s$

Performance:

Capacitance change $\leq \pm 1\%$

DF change ≤ 0.0010 at 10kHz for $Cr \leq 1\mu F$

DF change ≤ 0.0010 at 1kHz for $Cr > 1\mu F$

IR $\geq 50\%$ of initial limit value

Reliability (MIL HDB 217)

Application conditions:

Applied voltage= $0,5 \times U_r$ (DC)

Temperature= +40 $\pm 2^\circ C$

Failure rate:

(1FIT= 1×10^{-9} failures/components x hours)

$\leq 3FIT$

Failure criteria (DIN44122):

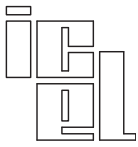
Capacitance change $> \pm 10\%$

DF change $> 2 \times$ initial value

IR $< 0,005 \times$ initial limit value

Short or open circuit

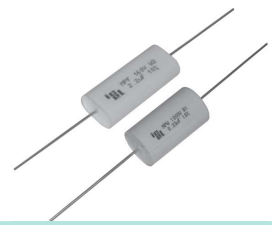
Warning: this specification must be completed with the data given in the "General technical information" chapter



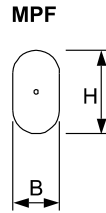
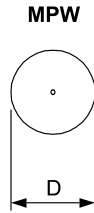
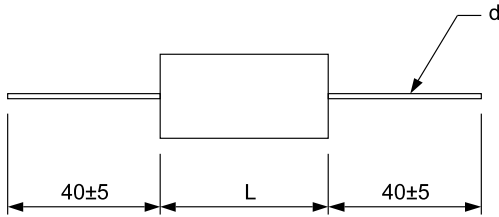
MPW - MPF

Metallized polypropylene film capacitor

MKP - Low dissipation general purpose



Dimensional tolerances (mm)



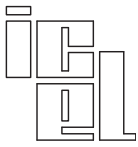
| L. | L± | D± | H± | B± |
|------|-----|-----|-----|-----|
| 10,5 | 1,0 | 1,0 | - | - |
| 13,0 | 1,5 | 1,0 | - | - |
| 19,0 | 1,5 | 1,5 | 1,5 | 1,0 |
| 27,0 | 2,0 | 2,0 | 2,0 | 1,5 |
| 32,0 | 2,0 | 2,0 | 2,0 | 2,0 |
| 44,0 | 2,5 | 2,5 | 2,5 | 2,0 |

MPW article table (different values available upon request)

| Rated voltage Vdc | Vac | Cap. value (µF) | Dimension in mm | | | du/dt V/µs | Ko V ² /µs | ICEL ordering code ⁽¹⁾ |
|----------------------|--------------------|--------------------|-----------------|------|-----|---------------|--------------------------|-----------------------------------|
| | | | D | L | d | | | |
| 160 | 90 | 0,022 | 4,5 | 10,5 | 0,6 | 56 | 17920 | MPW1162220*A |
| 160 | 90 | 0,033 | 4,5 | 10,5 | 0,6 | 56 | 17920 | MPW1162330*A |
| 160 | 90 | 0,047 | 4,5 | 10,5 | 0,6 | 56 | 17920 | MPW1162470*A |
| 160 | 90 | 0,068 | 5 | 13 | 0,6 | 44 | 14080 | MPW1162680*B |
| 160 | 90 | 0,1 | 5,5 | 13 | 0,6 | 44 | 14080 | MPW1163100*B |
| 160 | 90 | 0,15 | 6,5 | 13 | 0,6 | 44 | 14080 | MPW1163150*B |
| 160 | 90 | 0,22 | 7 | 13 | 0,6 | 44 | 14080 | MPW1163220*B |
| 160 | 90 | 0,33 | 6,5 | 19 | 0,6 | 25 | 8000 | MPW1163330*D |
| 160 | 90 | 0,47 | 7,5 | 19 | 0,8 | 25 | 8000 | MPW1163470*D |
| 160 | 90 | 0,68 | 9,5 | 19 | 0,8 | 25 | 8000 | MPW1163680*D |
| 160 | 90 | 0,68 | 7,5 | 27 | 0,8 | 17 | 5440 | MPW1163680*G |
| 160 | 90 | 1 | 11 | 19 | 0,8 | 25 | 8000 | MPW1164100*D |
| 160 | 90 | 1 | 9 | 27 | 0,8 | 17 | 5440 | MPW1164100*G |
| 160 | 90 | 1,5 | 10,5 | 27 | 0,8 | 17 | 5440 | MPW1164150*G |
| 160 | 90 | 2,2 | 12,5 | 27 | 0,8 | 17 | 5440 | MPW1164220*G |
| 160 | 90 | 2,2 | 11,5 | 32 | 0,8 | 12,5 | 4000 | MPW1164220*J |
| 160 | 90 | 3,3 | 15 | 27 | 0,8 | 17 | 5440 | MPW1164330*G |
| 160 | 90 | 3,3 | 14 | 32 | 0,8 | 12,5 | 4000 | MPW1164330*J |
| 160 | 90 | 4,7 | 16 | 32 | 0,8 | 12,5 | 4400 | MPW1164470*J |
| 160 | 90 | 6,8 | 19 | 32 | 1 | 12,5 | 4400 | MPW1164680*J |
| 160 | 90 | 6,8 | 16 | 44 | 1 | 9 | 2880 | MPW1164680*N |
| 160 | 90 | 10 | 20 | 44 | 1 | 9 | 2880 | MPW1165100*N |
| 160 | 90 | 15 | 24 | 44 | 1 | 9 | 2880 | MPW1165150*N |
| 160 | 90 | 22 | 27,5 | 44 | 1 | 9 | 2880 | MPW1165220*N |
| 160 | 90 | 33 | 33,5 | 44 | 1 | 9 | 2880 | MPW1165330*N |
| 250 | 200 | 0,01 | 4,5 | 10,5 | 0,6 | 75 | 37500 | MPW1252100*A |
| 250 | 200 | 0,015 | 4,5 | 10,5 | 0,6 | 75 | 37500 | MPW1252150*A |
| 250 | 200 | 0,022 | 5 | 13 | 0,6 | 55 | 27500 | MPW1252220*B |
| 250 | 200 | 0,033 | 5,5 | 13 | 0,6 | 55 | 27500 | MPW1252330*B |
| 250 | 200 | 0,047 | 5,5 | 13 | 0,6 | 55 | 27500 | MPW1252470*B |
| 250 | 200 | 0,068 | 6,5 | 13 | 0,6 | 55 | 27500 | MPW1252680*B |
| 250 | 200 | 0,1 | 7,5 | 13 | 0,8 | 55 | 27500 | MPW1253100*B |
| 250 | 200 | 0,15 | 7 | 19 | 0,8 | 31 | 15500 | MPW1253150*D |
| 250 | 200 | 0,22 | 8 | 19 | 0,8 | 31 | 15500 | MPW1253220*D |
| 250 | 200 | 0,33 | 9,5 | 19 | 0,8 | 31 | 15500 | MPW1253330*D |
| 250 | 200 | 0,33 | 8 | 27 | 0,8 | 22 | 11000 | MPW1253330*G |
| 250 | 200 | 0,47 | 9 | 27 | 0,8 | 22 | 11000 | MPW1253470*G |
| 250 | 200 | 0,68 | 10,5 | 27 | 0,8 | 22 | 11000 | MPW1253680*G |
| 250 | 200 | 1 | 13 | 27 | 0,8 | 22 | 11000 | MPW1254100*G |
| 250 | 200 | 1 | 11 | 32 | 0,8 | 15 | 7500 | MPW1254100*J |
| 250 | 200 | 1,5 | 14 | 32 | 0,8 | 15 | 7500 | MPW1254150*J |
| 250 | 200 | 2,2 | 16,5 | 32 | 1 | 15 | 7500 | MPW1254220*J |
| 250 | 200 | 3,3 | 20 | 32 | 1 | 15 | 7500 | MPW1254330*J |
| 250 | 200 | 4,7 | 20 | 44 | 1 | 11 | 5500 | MPW1254470*N |
| 250 | 200 | 6,8 | 24,5 | 44 | 1 | 11 | 5500 | MPW1254680*N |
| 250 | 200 | 10 | 27,5 | 44 | 1 | 11 | 5500 | MPW1255100*N |
| 250 | 200 | 15 | 34,5 | 44 | 1 | 11 | 5500 | MPW1255150*N |
| 400 | 220 ⁽²⁾ | 0,0068 | 4,5 | 10,5 | 0,6 | 150 | 120E03 | MPW1401680*A |
| 400 | 220 ⁽²⁾ | 0,01 | 5 | 13 | 0,6 | 110 | 88000 | MPW1402100*B |
| 400 | 220 ⁽²⁾ | 0,015 | 5,5 | 13 | 0,6 | 110 | 88000 | MPW1402150*B |
| 400 | 220 ⁽²⁾ | 0,022 | 6 | 13 | 0,6 | 110 | 88000 | MPW1402220*B |
| 400 | 220 ⁽²⁾ | 0,033 | 6,5 | 13 | 0,6 | 110 | 88000 | MPW1402330*B |
| 400 | 220 ⁽²⁾ | 0,047 | 7,5 | 13 | 0,8 | 110 | 88000 | MPW1402470*B |
| 400 | 220 ⁽²⁾ | 0,068 | 7 | 19 | 0,8 | 61 | 48800 | MPW1402680*D |
| 400 | 220 ⁽²⁾ | 0,1 | 7,5 | 19 | 0,8 | 61 | 48800 | MPW1403100*D |
| 400 | 220 ⁽²⁾ | 0,15 | 8,5 | 19 | 0,8 | 61 | 48800 | MPW1403150*D |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

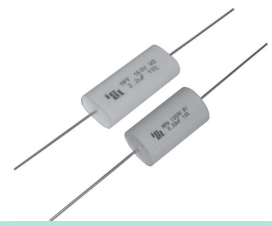
⁽²⁾Not suitable for across the line application.



MPW - MPF

Metallized polypropylene film capacitor

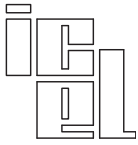
MKP - Low dissipation general purpose



| Rated voltage | | Cap. value (µF) | Dimension in mm | | | du/dt V/µs | Ko V ² /µs | ICEL ordering code ⁽¹⁾ |
|---------------|--------------------|-----------------|-----------------|------|-----|------------|-----------------------|-----------------------------------|
| Vdc | Vac | | D | L | d | | | |
| 400 | 220 ⁽²⁾ | 0,22 | 10,5 | 19 | 0,8 | 61 | 48800 | MPW1403220*D |
| 400 | 220 ⁽²⁾ | 0,22 | 8,5 | 27 | 0,8 | 37,5 | 30000 | MPW1403220*G |
| 400 | 220 ⁽²⁾ | 0,33 | 10,5 | 27 | 0,8 | 37,5 | 30000 | MPW1403330*G |
| 400 | 220 ⁽²⁾ | 0,47 | 12 | 27 | 0,8 | 37,5 | 30000 | MPW1403470*G |
| 400 | 220 ⁽²⁾ | 0,68 | 14 | 27 | 0,8 | 37,5 | 30000 | MPW1403680*G |
| 400 | 220 ⁽²⁾ | 0,68 | 13 | 32 | 0,8 | 29 | 23200 | MPW1403680*J |
| 400 | 220 ⁽²⁾ | 1 | 15,5 | 32 | 0,8 | 29 | 23200 | MPW1404100*J |
| 400 | 220 ⁽²⁾ | 1,5 | 18 | 32 | 1 | 29 | 23200 | MPW1404150*J |
| 400 | 220 ⁽²⁾ | 2,2 | 18 | 44 | 1 | 22 | 17600 | MPW1404220*N |
| 400 | 220 ⁽²⁾ | 3,3 | 21 | 44 | 1 | 22 | 17600 | MPW1404330*N |
| 400 | 220 ⁽²⁾ | 4,7 | 26 | 44 | 1 | 22 | 17600 | MPW1404470*N |
| 400 | 220 ⁽²⁾ | 6,8 | 30 | 44 | 1 | 22 | 17600 | MPW1404680*N |
| | | | | | | | | |
| 630 | 250 ⁽²⁾ | 0,001 | 4,5 | 10,5 | 0,6 | 200 | 252E03 | MPW1631100*A |
| 630 | 250 ⁽²⁾ | 0,0015 | 4,5 | 10,5 | 0,6 | 200 | 252E03 | MPW1631150*A |
| 630 | 250 ⁽²⁾ | 0,0022 | 4,5 | 10,5 | 0,6 | 200 | 252E03 | MPW1631220*A |
| 630 | 250 ⁽²⁾ | 0,0033 | 4,5 | 10,5 | 0,6 | 200 | 252E03 | MPW1631330*A |
| 630 | 250 ⁽²⁾ | 0,0047 | 4,5 | 10,5 | 0,6 | 200 | 252E03 | MPW1631470*A |
| 630 | 250 ⁽²⁾ | 0,0068 | 5 | 13 | 0,6 | 190 | 239E03 | MPW1631680*B |
| 630 | 250 ⁽²⁾ | 0,01 | 5,5 | 13 | 0,6 | 190 | 239E03 | MPW1632100*B |
| 630 | 250 ⁽²⁾ | 0,015 | 6,5 | 13 | 0,6 | 190 | 239E03 | MPW1632150*B |
| 630 | 250 ⁽²⁾ | 0,022 | 7,5 | 13 | 0,8 | 190 | 239E03 | MPW1632220*B |
| 630 | 250 ⁽²⁾ | 0,033 | 6,5 | 19 | 0,6 | 100 | 126E03 | MPW1632330*D |
| 630 | 250 ⁽²⁾ | 0,047 | 7,5 | 19 | 0,8 | 100 | 126E03 | MPW1632470*D |
| 630 | 250 ⁽²⁾ | 0,068 | 8,5 | 19 | 0,8 | 100 | 126E03 | MPW1632680*D |
| 630 | 250 ⁽²⁾ | 0,1 | 10 | 19 | 0,8 | 100 | 126E03 | MPW1633100*D |
| 630 | 250 ⁽²⁾ | 0,1 | 8 | 27 | 0,8 | 58 | 73080 | MPW1633100*G |
| 630 | 250 ⁽²⁾ | 0,15 | 9,5 | 27 | 0,8 | 58 | 73080 | MPW1633150*G |
| 630 | 250 ⁽²⁾ | 0,22 | 11 | 27 | 0,8 | 58 | 73080 | MPW1633220*G |
| 630 | 250 ⁽²⁾ | 0,22 | 10 | 32 | 0,8 | 46 | 57960 | MPW1633220*J |
| 630 | 250 ⁽²⁾ | 0,33 | 13 | 27 | 0,8 | 58 | 73080 | MPW1633330*G |
| 630 | 250 ⁽²⁾ | 0,33 | 12 | 32 | 0,8 | 46 | 57960 | MPW1633330*J |
| 630 | 250 ⁽²⁾ | 0,47 | 13,5 | 32 | 0,8 | 46 | 57960 | MPW1633470*J |
| 630 | 250 ⁽²⁾ | 0,68 | 16 | 32 | 0,8 | 46 | 57960 | MPW1633680*J |
| 630 | 250 ⁽²⁾ | 1 | 19 | 32 | 1 | 46 | 57960 | MPW1634100*J |
| 630 | 250 ⁽²⁾ | 1,5 | 19 | 44 | 1 | 33 | 41580 | MPW1634150*N |
| 630 | 250 ⁽²⁾ | 2,2 | 23 | 44 | 1 | 33 | 41580 | MPW1634220*N |
| 630 | 250 ⁽²⁾ | 3,3 | 28 | 44 | 1 | 33 | 41580 | MPW1634330*N |
| 630 | 250 ⁽²⁾ | 4,7 | 33,5 | 44 | 1 | 33 | 41580 | MPW1634470*N |
| | | | | | | | | |
| 1000 | 450 ⁽²⁾ | 0,015 | 8,5 | 19 | 0,8 | 150 | 300E03 | MPW2102150*D |
| 1000 | 450 ⁽²⁾ | 0,022 | 9,5 | 19 | 0,8 | 150 | 300E03 | MPW2102220*D |
| 1000 | 450 ⁽²⁾ | 0,022 | 7 | 27 | 0,8 | 82,5 | 165E03 | MPW2102220*G |
| 1000 | 450 ⁽²⁾ | 0,033 | 8 | 27 | 0,8 | 82,5 | 165E03 | MPW2102330*G |
| 1000 | 450 ⁽²⁾ | 0,047 | 9 | 27 | 0,8 | 82,5 | 165E03 | MPW2102470*G |
| 1000 | 450 ⁽²⁾ | 0,068 | 10,5 | 27 | 0,8 | 82,5 | 165E03 | MPW2102680*G |
| 1000 | 450 ⁽²⁾ | 0,1 | 13 | 27 | 0,8 | 82,5 | 165E03 | MPW2103100*G |
| 1000 | 450 ⁽²⁾ | 0,1 | 11 | 32 | 0,8 | 70 | 140E03 | MPW2103100*J |
| 1000 | 450 ⁽²⁾ | 0,15 | 13 | 32 | 0,8 | 70 | 140E03 | MPW2103150*J |
| 1000 | 450 ⁽²⁾ | 0,22 | 15,5 | 32 | 0,8 | 70 | 140E03 | MPW2103220*J |
| 1000 | 450 ⁽²⁾ | 0,33 | 19 | 32 | 1 | 70 | 140E03 | MPW2103330*J |
| 1000 | 450 ⁽²⁾ | 0,47 | 22 | 32 | 1 | 70 | 140E03 | MPW2103470*J |
| | | | | | | | | |
| 1500 | 600 ⁽²⁾ | 0,001 | 4,5 | 13 | 0,6 | 250 | 750E03 | MPW2151100*B |
| 1500 | 600 ⁽²⁾ | 0,0015 | 5 | 13 | 0,6 | 250 | 750E03 | MPW2151150*B |
| 1500 | 600 ⁽²⁾ | 0,0022 | 5,5 | 13 | 0,6 | 250 | 750E03 | MPW2151220*B |
| 1500 | 600 ⁽²⁾ | 0,0033 | 5,5 | 13 | 0,6 | 250 | 750E03 | MPW2151330*B |
| 1500 | 600 ⁽²⁾ | 0,0047 | 6 | 13 | 0,6 | 250 | 750E03 | MPW2151470*B |
| 1500 | 600 ⁽²⁾ | 0,0068 | 6 | 19 | 0,6 | 187,5 | 562E03 | MPW2151680*D |
| 1500 | 600 ⁽²⁾ | 0,01 | 7 | 19 | 0,8 | 187,5 | 562E03 | MPW2152100*D |
| 1500 | 600 ⁽²⁾ | 0,015 | 9 | 19 | 0,8 | 187,5 | 562E03 | MPW2152150*D |
| 1500 | 600 ⁽²⁾ | 0,015 | 7 | 27 | 0,8 | 105 | 315E03 | MPW2152150*G |
| 1500 | 600 ⁽²⁾ | 0,022 | 10 | 19 | 0,8 | 187,5 | 562E03 | MPW2152220*D |
| 1500 | 600 ⁽²⁾ | 0,022 | 8 | 27 | 0,8 | 105 | 315E03 | MPW2152220*G |
| 1500 | 600 ⁽²⁾ | 0,033 | 9,5 | 27 | 0,8 | 105 | 315E03 | MPW2152330*G |
| 1500 | 600 ⁽²⁾ | 0,047 | 11 | 27 | 0,8 | 105 | 315E03 | MPW2152470*G |
| 1500 | 600 ⁽²⁾ | 0,068 | 12,5 | 27 | 0,8 | 105 | 315E03 | MPW2152680*G |
| 1500 | 600 ⁽²⁾ | 0,068 | 11,5 | 32 | 0,8 | 90 | 270E03 | MPW2152680*J |
| 1500 | 600 ⁽²⁾ | 0,1 | 14,5 | 27 | 0,8 | 105 | 315E03 | MPW2153100*G |
| 1500 | 600 ⁽²⁾ | 0,1 | 13,5 | 32 | 0,8 | 90 | 270E03 | MPW2153100*J |
| 1500 | 600 ⁽²⁾ | 0,15 | 16,5 | 32 | 1 | 90 | 270E03 | MPW2153150*J |
| 1500 | 600 ⁽²⁾ | 0,22 | 19,5 | 32 | 1 | 90 | 270E03 | MPW2153220*J |
| 1500 | 600 ⁽²⁾ | 0,33 | 23 | 32 | 1 | 90 | 270E03 | MPW2153330*J |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

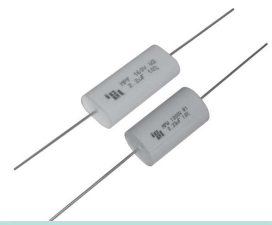
⁽²⁾Not suitable for across the line application.



MPW - MPF

Metallized polypropylene film capacitor

MKP - Low dissipation general purpose

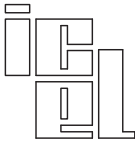


MPF article table (different values available upon request)

| Rated voltage | | Cap. value (µF) | Dimension in mm | | | | du/dt V/µs | Ko V2/µs | ICEL ordering code ⁽¹⁾ |
|---------------|--------------------|-----------------|-----------------|------|----|-----|------------|----------|-----------------------------------|
| Vdc | Vac | | B | H | L | d | | | |
| 160 | 90 | 0,33 | 5 | 9 | 19 | 0,6 | 25 | 8000 | MPF1163330*D |
| 160 | 90 | 0,47 | 5,5 | 9,5 | 19 | 0,6 | 25 | 8000 | MPF1163470*D |
| 160 | 90 | 0,68 | 6,5 | 11 | 19 | 0,8 | 25 | 8000 | MPF1163680*D |
| 160 | 90 | 1 | 6,5 | 11 | 27 | 0,8 | 17 | 5440 | MPF1164100*G |
| 160 | 90 | 1,5 | 7,5 | 12,5 | 27 | 0,8 | 17 | 5440 | MPF1164150*G |
| 160 | 90 | 4:48 | 8 | 14 | 32 | 0,8 | 12,5 | 4000 | MPF1164220*J |
| 160 | 90 | 3,3 | 10 | 16,5 | 32 | 0,8 | 12,5 | 4000 | MPF1164330*J |
| 160 | 90 | 4,7 | 12 | 20 | 32 | 0,8 | 12,5 | 4000 | MPF1164470*J |
| 160 | 90 | 6,8 | 11,5 | 19,5 | 44 | 0,8 | 9 | 2880 | MPF1164680*N |
| 160 | 90 | 10 | 13,5 | 23 | 44 | 0,8 | 9 | 2880 | MPF1165100*N |
| 160 | 90 | 15 | 18 | 28 | 44 | 1 | 9 | 2880 | MPF1165150*N |
| | | | | | | | | | |
| 250 | 200 | 0,15 | 5 | 9 | 19 | 0,6 | 31 | 15500 | MPF1253150*D |
| 250 | 200 | 0,22 | 5,5 | 9,5 | 19 | 0,6 | 31 | 15500 | MPF1253220*D |
| 250 | 200 | 0,33 | 7 | 12 | 19 | 0,8 | 31 | 15500 | MPF1253330*D |
| 250 | 200 | 0,47 | 9 | 14 | 19 | 0,8 | 31 | 15500 | MPF1253470*D |
| 250 | 200 | 0,68 | 7 | 13 | 27 | 0,8 | 22 | 11000 | MPF1253680*G |
| 250 | 200 | 1 | 9 | 15,5 | 27 | 0,8 | 22 | 11000 | MPF1254100*G |
| 250 | 200 | 1,5 | 10,5 | 17 | 32 | 0,8 | 15 | 7500 | MPF1254150*J |
| 250 | 200 | 2,2 | 12,5 | 19,5 | 32 | 0,8 | 15 | 7500 | MPF1254220*J |
| 250 | 200 | 3,3 | 12 | 20 | 44 | 0,8 | 11 | 5500 | MPF1254330*N |
| 250 | 200 | 4,7 | 14 | 23,5 | 44 | 0,8 | 11 | 5500 | MPF1254470*N |
| 250 | 200 | 6,8 | 18,5 | 29 | 44 | 1 | 11 | 5500 | MPF1254680*N |
| | | | | | | | | | |
| 400 | 220 ⁽²⁾ | 0,068 | 5 | 8 | 19 | 0,6 | 61 | 48800 | MPF1402680*D |
| 400 | 220 ⁽²⁾ | 0,1 | 5 | 9 | 19 | 0,6 | 61 | 48800 | MPF1403100*D |
| 400 | 220 ⁽²⁾ | 0,15 | 6,5 | 10,5 | 19 | 0,6 | 61 | 48800 | MPF1403150*D |
| 400 | 220 ⁽²⁾ | 0,22 | 7,5 | 12,5 | 19 | 0,8 | 61 | 48800 | MPF1403220*D |
| 400 | 220 ⁽²⁾ | 0,33 | 7,5 | 12,5 | 27 | 0,8 | 37,5 | 30000 | MPF1403330*G |
| 400 | 220 ⁽²⁾ | 0,47 | 9 | 14 | 27 | 0,8 | 37,5 | 30000 | MPF1403470*G |
| 400 | 220 ⁽²⁾ | 0,68 | 9 | 15 | 32 | 0,8 | 29 | 23200 | MPF1403680*J |
| 400 | 220 ⁽²⁾ | 1 | 11 | 19 | 32 | 0,8 | 29 | 23200 | MPF1404100*J |
| 400 | 220 ⁽²⁾ | 1,5 | 10,5 | 18,5 | 44 | 0,8 | 22 | 17600 | MPF1404150*N |
| 400 | 220 ⁽²⁾ | 2,2 | 13 | 22 | 44 | 0,8 | 22 | 17600 | MPF1404220*N |
| 400 | 220 ⁽²⁾ | 3,3 | 15 | 25 | 44 | 1 | 22 | 17600 | MPF1404330*N |
| | | | | | | | | | |
| 630 | 250 ⁽²⁾ | 0,033 | 5 | 9 | 19 | 0,6 | 100 | 126E03 | MPF1632330*D |
| 630 | 250 ⁽²⁾ | 0,047 | 6 | 10 | 19 | 0,6 | 100 | 126E03 | MPF1632470*D |
| 630 | 250 ⁽²⁾ | 0,068 | 6,5 | 10,5 | 19 | 0,6 | 100 | 126E03 | MPF1632680*D |
| 630 | 250 ⁽²⁾ | 0,1 | 7,5 | 12 | 19 | 0,8 | 100 | 126E03 | MPF1633100*D |
| 630 | 250 ⁽²⁾ | 0,15 | 7 | 11 | 27 | 0,8 | 58 | 73080 | MPF1633150*G |
| 630 | 250 ⁽²⁾ | 0,22 | 8 | 13 | 27 | 0,8 | 58 | 73080 | MPF1633220*G |
| 630 | 250 ⁽²⁾ | 0,33 | 8 | 15 | 32 | 0,8 | 46 | 57960 | MPF1633330*J |
| 630 | 250 ⁽²⁾ | 0,47 | 10 | 17 | 32 | 0,8 | 46 | 57960 | MPF1633470*J |
| 630 | 250 ⁽²⁾ | 0,68 | 12 | 19 | 32 | 0,8 | 46 | 57960 | MPF1633680*J |
| 630 | 250 ⁽²⁾ | 1 | 11,5 | 19 | 44 | 0,8 | 33 | 41580 | MPF1634100*N |
| 630 | 250 ⁽²⁾ | 1,5 | 13,5 | 23,5 | 44 | 0,8 | 33 | 41580 | MPF1634150*N |
| 630 | 250 ⁽²⁾ | 2,2 | 17,5 | 27,5 | 44 | 1 | 33 | 41580 | MPF1634220*N |
| | | | | | | | | | |
| 1000 | 450 ⁽²⁾ | 0,047 | 6 | 10 | 27 | 0,6 | 82,5 | 165E03 | MPF2102470*G |
| 1000 | 450 ⁽²⁾ | 0,068 | 7,5 | 12,5 | 27 | 0,8 | 82,5 | 165E03 | MPF2102680*G |
| 1000 | 450 ⁽²⁾ | 0,1 | 8 | 12 | 32 | 0,8 | 70 | 140000 | MPF2103100*J |
| 1000 | 450 ⁽²⁾ | 0,15 | 9,5 | 16 | 32 | 0,8 | 70 | 140000 | MPF2103150*J |
| 1000 | 450 ⁽²⁾ | 0,22 | 12 | 18,5 | 32 | 0,8 | 70 | 140000 | MPF2103220*J |
| 1000 | 450 ⁽²⁾ | 0,33 | 13,5 | 23,5 | 32 | 0,8 | 70 | 140000 | MPF2103330*J |
| | | | | | | | | | |
| 1500 | 600 ⁽²⁾ | 0,01 | 5 | 9 | 19 | 0,6 | 187,5 | 562E03 | MPF2152100*D |
| 1500 | 600 ⁽²⁾ | 0,015 | 6 | 10 | 19 | 0,6 | 187,5 | 562E03 | MPF2152150*D |
| 1500 | 600 ⁽²⁾ | 0,022 | 7 | 11 | 19 | 0,8 | 187,5 | 562E03 | MPF2152220*D |
| 1500 | 600 ⁽²⁾ | 0,033 | 9 | 13,5 | 19 | 0,8 | 187,5 | 562E03 | MPF2152330*D |
| 1500 | 600 ⁽²⁾ | 0,033 | 6 | 10,5 | 27 | 0,6 | 105 | 315E03 | MPF2152330*G |
| 1500 | 600 ⁽²⁾ | 0,047 | 8 | 13 | 27 | 0,8 | 105 | 315E03 | MPF2152470*G |
| 1500 | 600 ⁽²⁾ | 0,068 | 9 | 15,5 | 32 | 0,8 | 90 | 270E03 | MPF2152680*J |
| 1500 | 600 ⁽²⁾ | 0,1 | 9,5 | 16,5 | 32 | 0,8 | 90 | 270E03 | MPF2153100*J |
| 1500 | 600 ⁽²⁾ | 0,15 | 12,5 | 18,5 | 32 | 0,8 | 90 | 270E03 | MPF2153150*J |
| 1500 | 600 ⁽²⁾ | 0,22 | 14 | 23,5 | 32 | 0,8 | 90 | 270E03 | MPF2153220*J |

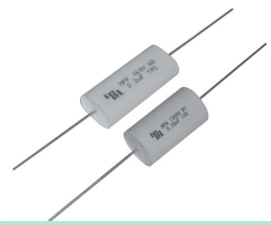
⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾Not suitable for across the line application.



MPW - MPF

Metallized polypropylene film capacitor
MKP - Low dissipation general purpose



Permissible AC voltage versus frequency (sinusoidal waveform) for $\Delta T = +10^\circ\text{C}$
Referred to the largest length execution among available ones

