



MWR / MWF

• MKT • axial terminals • high performance • general purpose

Main applications

Blocking, filtering, bypassing, timing, coupling, decoupling, general applications in electronics. Low AC voltage motor running. Low power switching applications. Low pulse operation

Dielectric

Polyester

Electrodes

Vacuum deposited metal layers

Coating

UL 510 / CSA TIL I-26 polyester tape wrapping; UL 94 V-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

Terminals

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 (case)

-55°...+105°C

Nominal Capacitance (Cn) μF

1000pF to 100 μF , 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 General Technical Information

Long term stability (at 1kHz)

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

Rated voltage (Ur) (Vdc) at 85°C

50, 63, 100, 250, 400, 630, 1000, 1500 Vdc

Permissible AC voltage at 60Hz (Vac)

30, 40, 63, 160, 200, 220, 400, 440 Vac

Category voltage (Uc)

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

Temperature derated voltage

For $T > +100^\circ C$, U_r must be decreased 1,25% for every °C exceeding +100°C

Self inductance

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

Maximum pulse rise time $V/\mu s$

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.	$C_n \leq 0.1 \mu F$	$0.1 \mu F < C_n \leq 1 \mu F$	$C_n > 1 \mu F$
1kHz	80	80	100
10kHz	150	150	-
100kHz	300	-	-

Insulation resistance (R_{INS})

Measured between terminals, at $25 \pm 5^\circ C$, after 1 minute of electrification at 100Vdc for $U_r \geq 100V_{dc}$ and 50Vdc for $U_r < 100V_{dc}$

U_r	C_n	R_{INS}
≤ 100	$\leq 0.33 \mu F$	$\geq 15000 M\Omega$
> 100	$\leq 0.33 \mu F$	$\geq 30000 M\Omega$
≤ 100	$> 0.33 \mu F$	$\geq 5000 s$
> 100	$> 0.33 \mu F$	$\geq 10000 s$

Test voltage between terminals (U_t)

$1,6xU_r$ (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 $\leq \pm 5\%$
DF change ≤ 0.0050 at 1kHz
 $R_{INS} \geq 50\%$ of initial limit value

Endurance test

Test conditions:

Temperature = $+100 \pm 2^\circ C$
Test duration = 2000h
Voltage applied = $1,25xU_r$ (DC)

Performance:

Capacitance change $\leq \pm 5\%$
DF change ≤ 0.0030 at 10kHz for $C_n \leq 1\mu F$
DF change ≤ 0.0020 at 1kHz for $C_n > 1\mu F$
 $R_{INS} \geq 50\%$ 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 $\leq \pm 2\%$
DF change ≤ 0.0030 at 10kHz for $C_n \leq 1\mu F$
DF change ≤ 0.0020 at 1kHz for $C_n > 1\mu F$
 $R_{INS} \geq 50\%$ of initial limit value

Reliability (MIL HDB 217)

Application conditions:

Applied voltage = $0,5 x U_r$ (DC)
Temperature = $+40 \pm 2^\circ C$

Failure rate: (FIT = $1x10^{-9}$ failures/components x hours)

$\leq 5FIT$ for $U_r \leq 100V_{dc}$
 $\leq 3FIT$ for $U_r > 100V_{dc}$

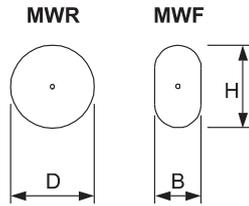
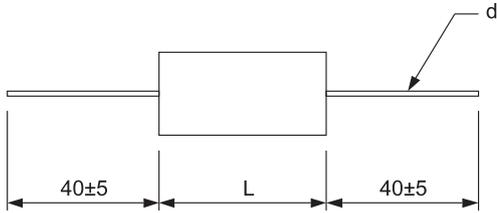
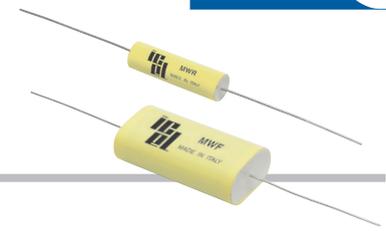
Failure criteria (DIN44122):

Capacitance change $> \pm 10\%$
DF change $> 2 x$ initial value
 $R_{INS} < 0,005 x$ initial limit value
Short or open circuit



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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

MWR article table (different values available upon request)

Voltage at +85°C		Cn μF	Dimensions (mm)			du/dt V/μs	K ₀ V ² /μs	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac)		D	L	d			
50	30	1,5	7	13	0,6	9	900	MWR0504150*B
50	30	2,2	8	13	0,8	9	900	MWR0504220*B
50	30	3,3	8	19	0,8	6	600	MWR0504330*D
50	30	4,7	9	19	0,8	6	600	MWR0504470*D
50	30	6,8	10	19	0,8	6	600	MWR0504680*D
50	30	10	12	19	0,8	6	600	MWR0505100*D
63	40	0,22	5	13	0,6	11	1380	MWR0633220*B
63	40	0,33	5	13	0,6	11	1380	MWR0633330*B
63	40	0,47	5,5	13	0,6	11	1380	MWR0633470*B
63	40	0,68	6	13	0,6	11	1380	MWR0633680*B
63	40	0,68	6	19	0,6	7	880	MWR0633680*D
63	40	1	6,5	13	0,6	11	1380	MWR0634100*B
63	40	1	6,5	19	0,6	7	880	MWR0634100*D
63	40	1,5	8	19	0,8	7	880	MWR0634150*D
63	40	2,2	9	19	0,8	7	880	MWR0634220*D
63	40	2,2	8	27	0,8	5	630	MWR0634220*G
63	40	3,3	9	27	0,8	5	630	MWR0634330*G
63	40	4,7	10	27	0,8	5	630	MWR0634470*G
63	40	6,8	11,5	27	0,8	5	630	MWR0634680*G
63	40	6,8	11	32	0,8	4	500	MWR0634680*J
63	40	10	11,5	32	0,8	4	500	MWR0635100*J
63	40	15	13,5	32	0,8	4	500	MWR0635150*J
63	40	22	16,5	32	1	4	500	MWR0635220*J
63	40	33	22	32	1	4	500	MWR0635330*J
63	40	47	26	32	1	4	500	MWR0635470*J
63	40	47	21	44	1	4	500	MWR0635470*N
63	40	68	25,5	44	1	4	500	MWR0635680*N
63	40	100	30,5	44	1	4	500	MWR0636100*N
100	63	0,15	5	13	0,6	12	2400	MWR1103150*B
100	63	0,22	5,5	13	0,6	12	2400	MWR1103220*B
100	63	0,33	6	13	0,6	12	2400	MWR1103330*B
100	63	0,47	6,5	13	0,6	12	2400	MWR1103470*B
100	63	0,68	7	13	0,6	12	2400	MWR1103680*B
100	63	0,68	6	19	0,6	9	1800	MWR1103680*D
100	63	1	7	19	0,8	9	1800	MWR1104100*D
100	63	1,5	8,5	19	0,8	9	1800	MWR1104150*D
100	63	1,5	7,5	27	0,8	6	1200	MWR1104150*G
100	63	2,2	9,5	19	0,8	9	1800	MWR1104220*D
100	63	2,2	8,5	27	0,8	6	1200	MWR1104220*G
100	63	3,3	9,5	27	0,8	6	1200	MWR1104330*G

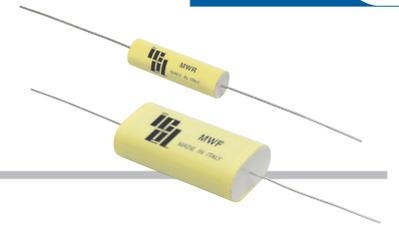
⁽¹⁾ Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Not suitable for across the line application



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Voltage at +85°C		Cn μF	Dimensions (mm)			du/dt V/μs	K ₀ V ² /μs	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac)		D	L	d			
100	63	4,7	11,5	27	0,8	6	1200	MWR1104470*G
100	63	4,7	10	32	0,8	4	800	MWR1104470*J
100	63	6,8	12	32	0,8	4	800	MWR1104680*J
100	63	10	14,5	32	0,8	4	800	MWR1105100*J
100	63	15	18	32	1	4	800	MWR1105150*J
100	63	22	21,5	32	1	4	800	MWR1105220*J
100	63	22	19	44	1	4	800	MWR1105220*N
100	63	33	22,5	44	1	4	800	MWR1105330*N
100	63	47	26,5	44	1	4	800	MWR1105470*N
100	63	68	32	44	1	4	800	MWR1105680*N
250	160	0,068	4,5	13	0,6	25	12500	MWR1252680*B
250	160	0,1	5	13	0,6	25	12500	MWR1253100*B
250	160	0,15	6	13	0,6	25	12500	MWR1253150*B
250	160	0,22	7	13	0,6	25	12500	MWR1253220*B
250	160	0,33	6	19	0,6	18	9000	MWR1253330*D
250	160	0,47	7,5	19	0,8	18	9000	MWR1253470*D
250	160	0,68	8,5	19	0,8	18	9000	MWR1253680*D
250	160	0,68	7,5	27	0,8	10	5000	MWR1253680*G
250	160	1	8,5	27	0,8	10	5000	MWR1254100*G
250	160	1,5	10,5	27	0,8	10	5000	MWR1254150*G
250	160	2,2	13	27	0,8	10	5000	MWR1254220*G
250	160	2,2	11,5	32	0,8	6,5	3250	MWR1254220*J
250	160	3,3	13,5	32	0,8	6,5	3250	MWR1254330*J
250	160	4,7	16	32	0,8	6,5	3250	MWR1254470*J
250	160	6,8	19	32	1	6,5	3250	MWR1254680*J
250	160	10	23	32	1	6,5	3250	MWR1255100*J
250	160	10	20	44	1	6,5	3250	MWR1255100*N
250	160	15	24	44	1	6,5	3250	MWR1255150*N
250	160	22	28,5	44	1	6,5	3250	MWR1255220*N
250	160	33	35	44	1	6,5	3250	MWR1255330*N
400	200	0,022	4,5	13	0,6	40	32000	MWR1402220*B
400	200	0,033	5	13	0,6	40	32000	MWR1402330*B
400	200	0,047	5,5	13	0,6	40	32000	MWR1402470*B
400	200	0,068	6,5	13	0,6	40	32000	MWR1402680*B
400	200	0,1	7,5	13	0,8	40	32000	MWR1403100*B
400	200	0,1	6	19	0,6	25	20000	MWR1403100*D
400	200	0,15	7,5	19	0,8	25	20000	MWR1403150*D
400	200	0,22	9	19	0,8	25	20000	MWR1403220*D
400	200	0,22	7,5	27	0,8	14	11200	MWR1403220*G
400	200	0,33	8,5	27	0,8	14	11200	MWR1403330*G
400	200	0,47	10	27	0,8	14	11200	MWR1403470*G
400	200	0,68	12	27	0,8	14	11200	MWR1403680*G
400	200	0,68	10	32	0,8	10	8000	MWR1403680*J
400	200	1	12	32	0,8	10	8000	MWR1404100*J
400	200	1,5	15	32	0,8	10	8000	MWR1404150*J
400	200	2,2	18	32	1	10	8000	MWR1404220*J
400	200	3,3	22	32	1	10	8000	MWR1404330*J
400	200	3,3	18,5	44	1	10	8000	MWR1404330*N
400	200	4,7	21,5	44	1	10	8000	MWR1404470*N
400	200	6,8	26	44	1	10	8000	MWR1404680*N
400	200	10	31,5	44	1	10	8000	MWR1405100*N

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Voltage at +85°C		Cn μF	Dimensions (mm)			du/dt V/μs	K ₀ V ² /μs	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac)		D	L	d			
630	220 ⁽²⁾	0,01	4,5	13	0,6	60	75600	MWR1632100*B
630	220 ⁽²⁾	0,015	5	13	0,6	60	75600	MWR1632150*B
630	220 ⁽²⁾	0,022	6	13	0,6	60	75600	MWR1632220*B
630	220 ⁽²⁾	0,033	6,5	13	0,6	60	75600	MWR1632330*B
630	220 ⁽²⁾	0,047	6	19	0,6	35	44100	MWR1632470*D
630	220 ⁽²⁾	0,068	7	19	0,8	35	44100	MWR1632680*D
630	220 ⁽²⁾	0,1	9	19	0,8	35	44100	MWR1633100*D
630	220 ⁽²⁾	0,1	7,5	27	0,8	20	25200	MWR1633100*G
630	220 ⁽²⁾	0,15	8,5	27	0,8	20	25200	MWR1633150*G
630	220 ⁽²⁾	0,22	10,5	27	0,8	20	25200	MWR1633220*G
630	220 ⁽²⁾	0,33	12,5	27	0,8	20	25200	MWR1633330*G
630	220 ⁽²⁾	0,33	11	32	0,8	14	17600	MWR1633330*J
630	220 ⁽²⁾	0,47	13	32	0,8	14	17600	MWR1633470*J
630	220 ⁽²⁾	0,68	15,5	32	0,8	14	17600	MWR1633680*J
630	220 ⁽²⁾	1	18,5	32	1	14	17600	MWR1634100*J
630	220 ⁽²⁾	1,5	22,5	32	1	14	17600	MWR1634150*J
630	220 ⁽²⁾	2,2	22,5	44	1	14	17600	MWR1634220*N
630	220 ⁽²⁾	3,3	27,5	44	1	14	17600	MWR1634330*N
630	220 ⁽²⁾	4,7	32,5	44	1	14	17600	MWR1634470*N
1000	400 ⁽²⁾	0,0047	5	13	0,6	80	160000	MWR2101470*B
1000	400 ⁽²⁾	0,0068	5,5	13	0,6	80	160000	MWR2101680*B
1000	400 ⁽²⁾	0,01	5,5	13	0,6	80	160000	MWR2102100*B
1000	400 ⁽²⁾	0,015	6,5	13	0,6	80	160000	MWR2102150*B
1000	400 ⁽²⁾	0,022	6,5	19	0,6	40	80000	MWR2102220*D
1000	400 ⁽²⁾	0,033	7,5	19	0,8	40	80000	MWR2102330*D
1000	400 ⁽²⁾	0,047	9,5	19	0,8	40	80000	MWR2102470*D
1000	400 ⁽²⁾	0,047	7,5	27	0,8	33	66000	MWR2102470*G
1000	400 ⁽²⁾	0,068	9	27	0,8	33	66000	MWR2102680*G
1000	400 ⁽²⁾	0,1	10	27	0,8	33	66000	MWR2103100*G
1000	400 ⁽²⁾	0,15	12,5	27	0,8	33	66000	MWR2103150*G
1000	400 ⁽²⁾	0,15	10,5	32	0,8	20	40000	MWR2103150*J
1000	400 ⁽²⁾	0,22	12,5	32	0,8	20	40000	MWR2103220*J
1000	400 ⁽²⁾	0,33	15	32	0,8	20	40000	MWR2103330*J
1000	400 ⁽²⁾	0,47	17,5	32	1	20	40000	MWR2103470*J
1000	400 ⁽²⁾	0,68	20,5	32	1	20	40000	MWR2103680*J
1000	400 ⁽²⁾	1	25	32	1	20	40000	MWR2104100*J
1000	400 ⁽²⁾	1,5	25	44	1	20	40000	MWR2104150*N
1000	400 ⁽²⁾	2,2	30	44	1	20	40000	MWR2104220*N
1500	440 ⁽²⁾	0,001	4,5	13	0,6	90	270000	MWR2151100*B
1500	440 ⁽²⁾	0,0015	4,5	13	0,6	90	270000	MWR2151150*B
1500	440 ⁽²⁾	0,0022	5	13	0,6	90	270000	MWR2151220*B
1500	440 ⁽²⁾	0,0033	5,5	13	0,6	90	270000	MWR2151330*B
1500	440 ⁽²⁾	0,0047	6	13	0,6	90	270000	MWR2151470*B
1500	440 ⁽²⁾	0,0068	7	13	0,6	90	270000	MWR2151680*B
1500	440 ⁽²⁾	0,01	7,5	13	0,8	90	270000	MWR2152100*B
1500	440 ⁽²⁾	0,015	7	19	0,8	50	150000	MWR2152150*D
1500	440 ⁽²⁾	0,022	8	19	0,8	50	150000	MWR2152220*D
1500	440 ⁽²⁾	0,033	9,5	19	0,8	50	150000	MWR2152330*D
1500	440 ⁽²⁾	0,047	9	27	0,8	40	120000	MWR2152470*G
1500	440 ⁽²⁾	0,068	10,5	27	0,8	40	120000	MWR2152680*G
1500	440 ⁽²⁾	0,1	11	32	0,8	25	75000	MWR2153100*J

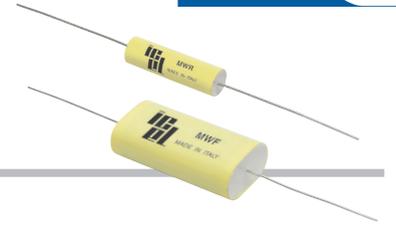
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Ur (Vdc)	Urms (Vac)		D	L	d			
1500	440 ⁽²⁾	0,15	13	32	0,8	25	75000	MWR2153150*J
1500	440 ⁽²⁾	0,22	15,5	32	0,8	25	75000	MWR2153220*J
1500	440 ⁽²⁾	0,33	18,5	32	1	25	75000	MWR2153330*J
1500	440 ⁽²⁾	0,47	22	32	1	25	75000	MWR2153470*J
1500	440 ⁽²⁾	0,68	22	44	1	25	75000	MWR2153680*N
1500	440 ⁽²⁾	1	26	44	1	25	75000	MWR2154100*N
1500	440 ⁽²⁾	1,5	31,5	44	1	25	75000	MWR2154150*N

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MWF article table (different values available upon request)

Voltage at +85°C		Cn μF	Dimensions (mm)				du/dt V/μs	K ₀ V ² /μs	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac)		B	H	L	d			
63	40	1,5	5,5	9,5	19	0,6	7	880	MWF0634150*D
63	40	2,2	5,5	9	27	0,6	5	630	MWF0634220*G
63	40	3,3	6	10,5	27	0,6	5	630	MWF0634330*G
63	40	4,7	6,5	11,5	27	0,8	5	630	MWF0634470*G
63	40	6,8	7	11,5	32	0,8	4	500	MWF0634680*J
63	40	10	8	14,5	32	0,8	4	500	MWF0635100*J
63	40	15	10,5	16,5	32	0,8	4	500	MWF0635150*J
63	40	22	13	20	32	0,8	4	500	MWF0635220*J
63	40	33	15,5	25,5	32	0,8	4	500	MWF0635330*J
100	63	1	5	9	19	0,6	9	1800	MWF1104100*D
100	63	1,5	5,5	11	19	0,6	9	1800	MWF1104150*D
100	63	2,2	5,5	11	27	0,6	6	1200	MWF1104220*G
100	63	3,3	7	12	27	0,8	6	1200	MWF1104330*G
100	63	4,7	7	12,5	32	0,8	4	800	MWF1104470*J
100	63	6,8	8,5	15	32	0,8	4	800	MWF1104680*J
100	63	10	10,5	17	32	0,8	4	800	MWF1105100*J
100	63	15	12	22	32	0,8	4	800	MWF1105150*J
100	63	22	12	22	44	0,8	4	800	MWF1105220*N
100	63	33	16	26	44	1	4	800	MWF1105330*N
100	63	47	20	30	44	1	4	800	MWF1105470*N
250	160	0,47	5,5	10	19	0,6	18	9000	MWF1253470*D
250	160	0,68	5,5	10	27	0,6	10	5000	MWF1253680*G
250	160	1	6,5	11	27	0,6	10	5000	MWF1254100*G
250	160	1,5	7,5	12,5	27	0,8	10	5000	MWF1254150*G
250	160	2,2	8,5	14	32	0,8	6,5	3250	MWF1254220*J
250	160	3,3	10	16,5	32	0,8	6,5	3250	MWF1254330*J
250	160	4,7	12	19	32	0,8	6,5	3250	MWF1254470*J
250	160	6,8	15	22	32	0,8	6,5	3250	MWF1254680*J
250	160	10	14	24	44	0,8	6,5	3250	MWF1255100*N
250	160	15	18	28	44	1	6,5	3250	MWF1255150*N
400	200	0,15	5	9	19	0,6	25	20000	MWF1403150*D
400	200	0,22	6	11	19	0,6	25	20000	MWF1403220*D
400	200	0,33	6	11	27	0,6	14	11200	MWF1403330*G
400	200	0,47	6,5	12	27	0,6	14	11200	MWF1403470*G
400	200	0,68	8	14,5	27	0,8	14	11200	MWF1403680*G
400	200	1	9	15,5	32	0,8	10	8000	MWF1404100*J
400	200	1,5	11,5	18	32	0,8	10	8000	MWF1404150*J
400	200	2,2	14	21	32	0,8	10	8000	MWF1404220*J
400	200	3,3	14	21,5	44	0,8	10	8000	MWF1404330*N
400	200	4,7	16	26	44	1	10	8000	MWF1404470*N
400	200	6,8	20	30	44	1	10	8000	MWF1404680*N
630	220 ⁽²⁾	0,068	5	9	19	0,6	35	44100	MWF1632680*D
630	220 ⁽²⁾	0,1	6	11	19	0,6	35	44100	MWF1633100*D
630	220 ⁽²⁾	0,15	6	11	27	0,6	20	25200	MWF1633150*G
630	220 ⁽²⁾	0,22	7,5	13	27	0,8	20	25200	MWF1633220*G
630	220 ⁽²⁾	0,33	7,5	14	32	0,8	14	17600	MWF1633330*J
630	220 ⁽²⁾	0,47	10	16	32	0,8	14	17600	MWF1633470*J
630	220 ⁽²⁾	0,68	12	19	32	0,8	14	17600	MWF1633680*J
630	220 ⁽²⁾	1	14,5	21,5	32	0,8	14	17600	MWF1634100*J

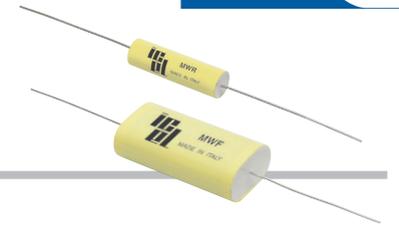
⁽¹⁾ Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Not suitable for across the line application



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Voltage at +85°C		Cn μF	Dimensions (mm)				du/dt V/μs	K ₀ V ² /μs	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac)		B	H	L	d			
630	220 ⁽²⁾	1,5	13	23	44	0,8	14	17600	MWF1634150*N
630	220 ⁽²⁾	2,2	17	26,5	44	1	14	17600	MWF1634220*N
630	220 ⁽²⁾	3,3	21,5	31	44	1	14	17600	MWF1634330*N
1000	400 ⁽²⁾	0,033	4,5	9,5	19	0,6	40	80000	MWF2102330*D
1000	400 ⁽²⁾	0,047	5,5	10,5	19	0,6	40	80000	MWF2102470*D
1000	400 ⁽²⁾	0,068	5,5	10	27	0,6	33	66000	MWF2102680*G
1000	400 ⁽²⁾	0,1	6,5	12	27	0,8	33	66000	MWF2103100*G
1000	400 ⁽²⁾	0,15	6,5	13	32	0,8	20	40000	MWF2103150*J
1000	400 ⁽²⁾	0,22	8,5	15	32	0,8	20	40000	MWF2103220*J
1000	400 ⁽²⁾	0,33	11	17,5	32	0,8	20	40000	MWF2103330*J
1000	400 ⁽²⁾	0,47	13,5	21	32	0,8	20	40000	MWF2103470*J
1000	400 ⁽²⁾	0,68	16	23	32	1	20	40000	MWF2103680*J
1000	400 ⁽²⁾	1	15	25	44	1	20	40000	MWF2104100*N
1000	400 ⁽²⁾	1,5	19	29	44	1	20	40000	MWF2104150*N
1500	440 ⁽²⁾	0,015	5	9	19	0,6	50	150000	MWF2152150*D
1500	440 ⁽²⁾	0,022	6	10,5	19	0,6	50	150000	MWF2152220*D
1500	440 ⁽²⁾	0,033	5,5	9,5	27	0,6	40	120000	MWF2152330*G
1500	440 ⁽²⁾	0,047	6	11	27	0,6	40	120000	MWF2152470*G
1500	440 ⁽²⁾	0,068	7	12,5	27	0,8	40	120	MWF2152680*G
1500	440 ⁽²⁾	0,1	7	13	32	0,8	25	75000	MWF2153100*J
1500	440 ⁽²⁾	0,15	9,5	16	32	0,8	25	75000	MWF2153150*J
1500	440 ⁽²⁾	0,22	11,5	18,5	32	0,8	25	75000	MWF2153220*J
1500	440 ⁽²⁾	0,33	14,5	21,5	32	0,8	25	75000	MWF2153330*J
1500	440 ⁽²⁾	0,47	14	21	44	0,8	25	75000	MWF2153470*N
1500	440 ⁽²⁾	0,68	16	26	44	1	25	75000	MWF2153680*N
1500	440 ⁽²⁾	1	20	30	44	1	25	75000	MWF2154100*N

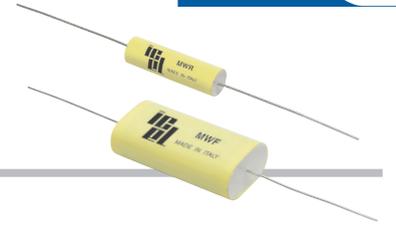
⁽¹⁾ Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Not suitable for across the line application

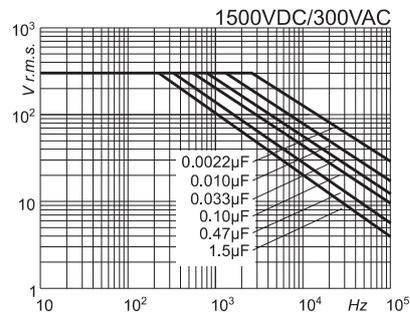
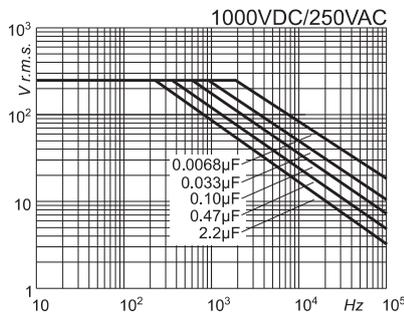
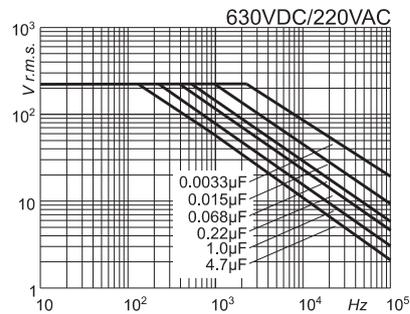
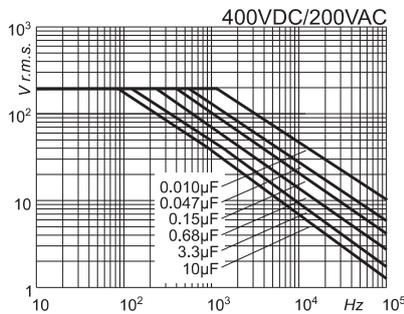
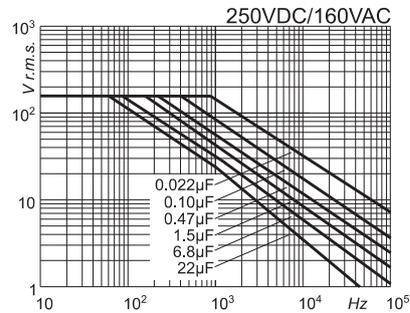
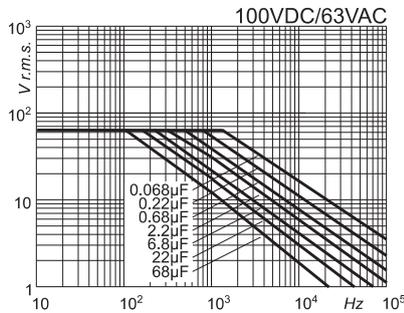
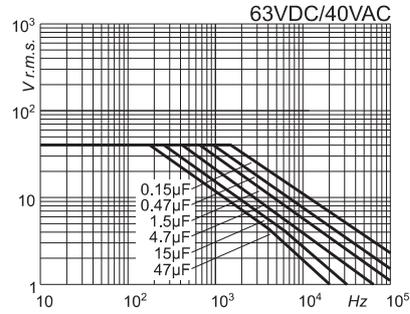
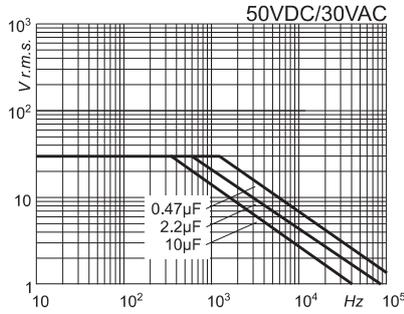


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Permissible AC voltage versus frequency (sinusoidal waveform) for $\Delta T = +10^\circ\text{C}$
Referred to the largest length execution among available ones



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