

X2 capacitors, axial leads

Rated ac voltage 275 V, 50/60 Hz

Construction

- Dielectric: polyester (MKT)
- Internal series connection
- Cylindrical winding
- Insulating sleeve
- Face ends sealed with epoxy resin

Features

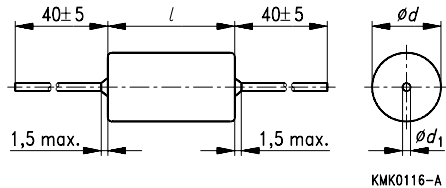
- Self-healing properties

Terminals

- Central axial wire leads, tinned

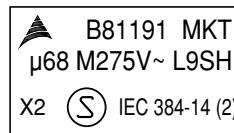
Marking

Manufacturer's logo, type number, style (MKT), self-healing (SH), date code, rated capacitance, capacitance tolerance (code letter), rated ac voltage, interference suppression subclass (X2), awarded marks of conformity.



Dimensions in mm

Diameter d (max)	Diameter d_1
$\leq 8,0$	0,6
8,0 ... 16	0,8
$> 16,0$	1,0



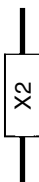
KMK0574-R

Delivery mode

Bulk (untaped)

Marks of conformity

Marks of conformity	Standards	Certificate
	EN 132 400, IEC 384-14, 2nd edition	9645082-01

**B 81 191****275 Vac****Ordering codes and packing units**

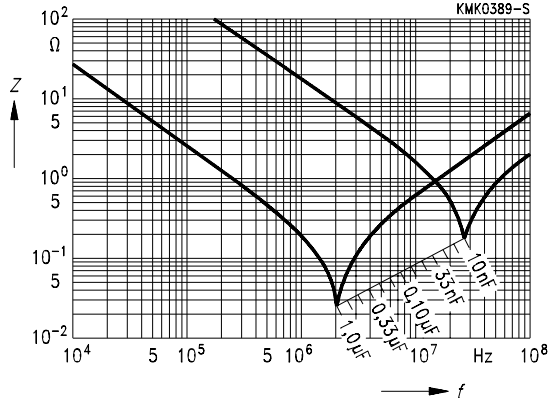
C_R	Max. dimensions $d \times l$ mm	Ordering code	Packing unit (pcs) Untaped
10 nF	$7,0 \times 19,0$	B81191-C1103-M	1000
15 nF	$7,0 \times 19,0$	B81191-C1153-M	1000
22 nF	$7,0 \times 19,0$	B81191-C1223-M	1000
33 nF	$8,0 \times 19,0$	B81191-C1333-M	900
47 nF	$8,0 \times 19,0$	B81191-C1473-M	900
68 nF	$9,0 \times 19,0$	B81191-C1683-M	800
0,10 μ F	$11,0 \times 19,0$	B81191-C1104-M	400
0,15 μ F	$9,0 \times 26,5$	B81191-C1154-M	800
0,22 μ F	$11,0 \times 26,5$	B81191-C1224-M	400
0,33 μ F	$13,0 \times 26,5$	B81191-C1334-M	upon request
0,47 μ F	$15,0 \times 26,5$	B81191-C1474-M	upon request
0,68 μ F	$16,0 \times 31,5$	B81191-C1684-M	upon request
1,0 μ F	$19,0 \times 31,5$	B81191-C1105-M	upon request

Capacitance tolerance: $\pm 20 \text{ \% } \triangleq M$ **Technical data**

Climatic category in accordance with IEC 60068-1	40/100/21	
Lower category temperature $T_{\min}$	$-40 \text{ }^{\circ}\text{C}$	
Upper category temperature $T_{\max}$	$+100 \text{ }^{\circ}\text{C}$	
Passive flammability category in accordance with IEC 40 (CO) 752	C	
Damp heat test	21 days/40 $^{\circ}\text{C}$ /93 % relative humidity	
Limit values after damp heat test	Capacitance change $ \Delta C/C \leq 5 \text{ \%}$ Dissipation factor change $\Delta \tan \delta \leq 5 \cdot 10^{-3}$ (at 1 kHz) Insulation resistance $R_{\text{is}} \geq 50 \text{ \%}$ of minimum or time constant $\tau = C_R \cdot R_{\text{is}}$ as-delivered values	
Permissible continuous ac voltage	275 V (50/60 Hz)	
Permissible continuous dc voltage	600 V	
DC test voltage	1075 V, 2 s	
Dissipation factor $\tan \delta$ at 20 $^{\circ}\text{C}$ (upper limit value)	$10 \cdot 10^{-3}$ at 1 kHz	
Insulation resistance R_{is} or time constant $\tau = C_R \cdot R_{\text{is}}$ at 20 $^{\circ}\text{C}$, rel. humidity $\leq 65 \text{ \%}$ (minimum as-delivered values)	$C_R \leq 0,33 \text{ }\mu\text{F}$ 30 000 M Ω	$C_R > 0,33 \text{ }\mu\text{F}$ 10 000 s

Technical data

Impedance Z
versus frequency f
(typical values)



Pulse handling capability

Maximum permissible voltage change per unit of time for non-sinusoidal voltages (pulse, sawtooth).

V_R	Max. rate of voltage rise V_{pp}/τ in V/ μ s (for $V_{pp} = \hat{V}_R$)		
	Length		
	19 mm	26,5 mm	31,5 mm
275 Vac	50	25	15

For $V_{pp} < \hat{V}_R$, the permissible voltage rise rate V_{pp}/τ may be multiplied by the factor $\hat{V}_R/V_{pp}$. Also refer to the calculation example in chapter "General technical information", page 302.

V_R	Pulse characteristic k_0 in V ² / μ s (for $V_{pp} \leq \hat{V}_R$)		
	Length		
	19 mm	26,5 mm	31,5 mm
275 Vac	40 000	15 000	10 000

Herausgegeben von EPCOS AG

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