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EMI Suppression Capacitors (MKP)

Series/Type: B81130*

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B81130*	B3292*	2007-08-10	2008-09-30	2008-12-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

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EMI suppression capacitors (MKP)

B81130

X2 / 275 VAC

Not for new design

Typical applications

- X2 class for interference suppression
- "Across the line" applications

Climatic

- Max. operating temperature: 100 °C
- Climatic category (IEC 60068-1): 40/100/21

Construction

- Dielectric: polypropylene (MKP)
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- Small dimensions
- Self-healing properties

Terminals

- Parallel wire leads, lead-free tinned
- Standard lead lengths: 6 -1 mm
- Special lead lengths available on request

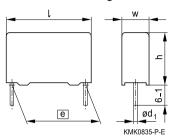
Marking

Manufacturer's logo, lot number, date code, rated capacitance (coded), cap. tolerance (code letter), rated AC voltage, series number, sub-class (X2), dielectric code (MKP), climatic category, passive flammability category, approvals.

Delivery mode

Bulk (untaped)
Taped (Ammo pack or reel)
For taping details, refer to chapter
"Taping and packing".

Dimensional drawing



Dimensions in mm

Lead spacing @ ±0.4	Lead diameter d ₁		
10 mm	0.6		
15 27.5 mm	0.8		

Marking examples

e = 10 mm



KMK0817-R



0V~ 250V~ KMK0818-Z

 θ = 27.5 mm/C_B>1 μ F



KMK0819-8

Approvals

Marks of conformity	Standards	Certificate
3 10	EN 132400, IEC 60384-14	138554
71	UL 1414 / UL 1283	E97863 / E157153
c '74 2	CSA C22.2 No.1	E97863
	CQC (GB/T 14472-1998)	CQC02001001667



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Overview of available types

Lead spacing	10 mm	15 mm	22.5 mm	27.5 mm
C _R (μF)				
0.010				
0.015				
0.022				
0.033				
0.047				
0.056				
0.068				
0.10				
0.15				
0.22				
0.33				
0.47				
0.68				
1.0				
1.5				
2.2				





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Ordering codes and packing units

Lead spacing	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
		$w \times h \times l$	(composition see	pack		
mm	μF	mm	below)	pcs./unit	pcs./unit	pcs./unit
10	0.010	4.0 × 9.0 × 13.0	B81130C1103+***	1000	1700	1000
	0.015	$4.0 \times 9.0 \times 13.0$	B81130C1153+***	1000	1700	1000
	0.022	$5.0 \times 11.0 \times 13.0$	B81130C1223+***	830	1300	1000
	0.033	$5.0 \times 11.0 \times 13.0$	B81130C1333M***	830	1300	1000
	0.033	$6.0 \times 12.0 \times 13.0$	B81130A1333+***	680	1100	1000
	0.047	$6.0 \times 12.0 \times 13.0$	B81130C1473+***	680	1100	1000
15	0.022	$5.0 \times 10.5 \times 18.0$	B81130B1223+***	1170	1300	1000
	0.033	$5.0 \times 10.5 \times 18.0$	B81130B1333+***	1170	1300	1000
	0.047	$5.0 \times 10.5 \times 18.0$	B81130B1473+***	1170	1300	1000
	0.056	$5.0 \times 10.5 \times 18.0$	B81130C1563M***	1170	1300	1000
	0.068	$6.0 \times 11.0 \times 18.0$	B81130C1683+***	960	1100	1000
	0.10	$6.0 \times 12.0 \times 18.0$	B81130C1104M***	960	1100	1000
	0.10	$7.0 \times 12.5 \times 18.0$	B81130A1104+***	830	900	1000
	0.15	$8.5 \times 14.5 \times 18.0$	B81130C1154+***	680	700	500
	0.22	$9.0 \times 17.5 \times 18.0$	B81130C1224+***	640	700	500
22.5	0.15	$6.0 \times 15.0 \times 26.5$	B81130B1154+***	680	700	720
	0.22	$7.0 \times 16.0 \times 26.5$	B81130B1224+***	580	600	630
	0.33	$8.5 \times 16.5 \times 26.5$	B81130C1334+***	480	500	510
	0.47	$10.5 \times 16.5 \times 26.5$	B81130C1474M***	390	400	540
	0.47	$10.5 \times 18.5 \times 26.5$	B81130A1474+***	390	400	540
	0.68	$11.0\times20.5\times26.5$	B81130C1684+***	370	350	510
27.5	0.47	$11.0 \times 21.0 \times 31.5$	B81130B1474+***	_	350	320
	0.68	$11.0 \times 21.0 \times 31.5$	B81130B1684+***	_	350	320
	1.0	$12.5 \times 21.5 \times 31.5$	B81130C1105M***	_	300	280
	1.0	$13.5 \times 23.0 \times 31.5$	B81130A1105+***	_	250	260
	1.5	$15.0 \times 24.5 \times 31.5$	B81130C1155M***	_	-	240
	1.5	$18.0 \times 27.5 \times 31.5$	B81130A1155+***	_	-	200
	2.2	$18.0 \times 27.5 \times 31.5$	B81130C1225M***	_	_	200
	2.2	$19.0 \times 30.0 \times 31.5$	B81130A1225+***	_	_	180

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

 $M = \pm 20\%$

 $K = \pm 10\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 - 1 mm)

(Closer tolerances on request)



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Technical data

Max. operating temperature $T_{op,max}$	+10	0 °C					
Dissipation factor tan δ (in 10 ⁻³)				$C_R \le 0.1 \ \mu F$	$C_R > 0.1 \mu F$		
at 20 °C (upper limit values)	at	1 kHz		1.0	1.0		
		100 kHz		5.0	_		
Insulation resistance R _{ins}	C _R :	≤ 0.33 μF		$C_R > 0.33 \ \mu F$			
or time constant $\tau = C_R \cdot R_{ins}$	100	000 MΩ		30 000 s			
at 20 °C, rel. humidity ≤ 65%							
(minimum as-delivered values)							
DC test voltage	212	1 V, 2 s					
Passive flammability category	В						
to IEC 40 (CO) 752							
Maximum continuous AC voltage (V _{AC})	310	310 V (50/60 Hz)					
Rated AC voltage (IEC 60384-14)		275 V (50/60 Hz)					
Maximum continuous DC voltage (V _{DC})	760	V					
Operating AC voltage V _{op} at high	T _A s	≤ 100 °C	V_{op}	$_{o} = V_{AC}$	(continuously)		
temperature	T _A s	≤ 100 °C	V_{op}	$_{\rm s}$ = 1.25 \cdot $V_{\rm AC}$	(1000 h)		
Damp heat test	21 days / 40 °C / 93% relative humidity			midity			
Limit values after damp heat test	Cap	Capacitance change $ \Delta C/C \leq 5\%$					
	Dissipation factor change Δ tan $\delta \le 0.5 \cdot 10^{-3}$ (at 1 kHz)						
	Insi	Insulation resistance R _{ins}			$\leq 1.0 \cdot 10^{-3} \text{ (at 10 kHz)}$		
	or time constant $\tau = C_R \cdot R_{ins}$			$\tau = C_R \cdot R_{ins}$	$\geq 50\%$ of minimum		
					as-delivered values		





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Pulse handling capability

"dV/dt" represents the maximum permissible voltage change per unit of time for non-sinusoidal voltages, expressed in $V/\mu s$.

" k_0 " represents the maximum permissible pulse characteristic of the waveform applied to the capacitor, expressed in $V^2/\mu s$.

Note:

The values of dV/dt and k_0 provided below must not be exceeded in order to avoid damaging the capacitor.

dV/dt and ko values

Lead spacing	10 mm	15 mm	22.5 mm	27.5 mm
dV/dt in V/μs	550	400	200	150
k ₀ in V²/μs	429 000	312 000	156 000	117 000

Impedance Z versus frequency f

(typical values)

