

**Typical applications**

- For connection in series with the mains
- For severe ambient conditions.

**Climatic**

- Maximum operating temperature of 105°C
- Climatic category 40/105/56

**Construction**

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

**Features**

- Very small dimensions
- Self-healing properties

**Terminals**

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

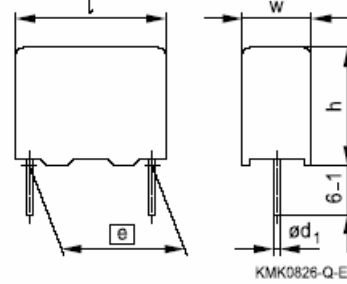
**Marking**

- Manufacturer's logo and lot number. Date code, rated capacitance (coded), capacitance tolerance (code letter) and rated ac voltage (IEC)
- Series number, sub-class (X2), Dielectric code (MKP), climatic category, passive flammability category, approvals.

**Delivery mode**

- Bulk (untaped)
- Taped (Ammo pack or reel)

**Dimensional drawing**



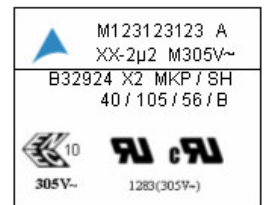
Dimensions in mm

Lead spacing $e$ ±0.4	Lead diameter d1	Type
15 ~ 27.5	0.8	B32922 ~ 24




**Marking examples**

$27.5 \geq e \geq 15$  mm  
 $C_R \leq 1 \mu F$

$27.5 \geq e \geq 22.5$  mm  
 $C_R > 1 \mu F$



**Approvals**

Standards	Certificate	Marks of Conformity
EN 132400 / IEC 60384-14	40005536 & 40010694	
UL1414 UL1283	E97863 E157153	
CSA C22.2 No. 1 CSA C22.2 No. 8	E97863 E157153	

<sup>(1)</sup> approved by UL



Ordering codes and packing units

Lead space mm	C <sub>R</sub> μF	Max dimensions w x h x l mm	Ordering code	Ammo pack pcs/unit	Reel pcs/unit	Untaped pcs/unit
15	0,10 μF	5,0 x 10,5 x 18,0	B32922-C3104-+7**	1170	1300	1000
	0,15 μF	6,0 x 12,0 x 18,0	B32922-C3154-+7**	960	1100	1000
	0,22 μF	7,0 x 12,5 x 18,0	B32922-C3224-+7**	830	900	1000
	0,33 μF	8,0 x 14,0 x 18,0	B32922-C3334-M7**	730	750	500
	0,33 μF	8,5 x 14,5 x 18,0	B32922-D3334-+7**	680	700	500
	0,47 μF	9,0 x 17,5 x 18,0	B32922-C3474-+7**	640	700	500
22,5	0,33 μF	6,0 x 15,0 x 26,5	B32923-C3334-M7**	680	700	720
	0,33 μF	7,0 x 16,0 x 26,5	B32923-D3334-+7**	580	600	630
	0,47 μF	8,5 x 16,5 x 26,5	B32923-C3474-+7**	480	500	510
	0,68 μF	10,5 x 16,5 x 26,5	B32923-C3684-+7**	390	400	540
	1,0 μF	11,0 x 20,5 x 26,5	B32923-C3105-+7**	370	350	510
	1,5 μF	12,0 x 22,0 x 26,5	B32923-C3155-M7**	–	–	450
27,5	0,68 μF	11,0 x 19,0 x 31,5	B32924-C3684-+7**	–	350	320
	0,82 μF	11,0 x 19,0 x 31,5	B32924-C3824-+7**	–	350	320
	1,0 μF	11,0 x 19,0 x 31,5	B32924-C3105-+7**	–	350	320
	1,5 μF	12,5 x 21,5 x 31,5	B32924-C3155-+7**	–	300	280
	2,2 μF	14,0 x 24,5 x 31,5	B32924-C3225-+7**	–	–	260

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code

M = ±20%

K = ±10%

(Closer tolerances on request)

7\*\* = Packing code (\*\* Indicates the details as below)

83 = 3.2 ± 0.3 mm leads

84 = 4.0 ± 0.3 mm leads

86 = 5.5 ± 0.5 mm leads

87 = 26.0 ± 2.0 mm leads

88 = 189 - Reel pack

89 = 289 - Ammopack



**EMI suppression capacitors (MKP)**  
**X2 / 305 VAC**

**B32922 ... B32924**

**Technical data**

Maximum operating temperature $T_{OPmax}$	105°C		
Dissipation factor $\tan \delta$ (in $10^{-3}$ ) at 20 °C (upper limit values)		$C_R \leq 0,1 \mu F$	$0,1 \mu F < C_R \leq 2,2 \mu F$
	at 1 kHz 100 kHz	1,0 5	1,0 -
Insulation resistance $R_{is}$ or time constant $\tau = C_R \cdot R_{is}$ is at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	$C_R \leq 0,33 \mu F$		$C_R > 0,33 \mu F$
	100 000M $\Omega$		30 000 s
DC test voltage	2000 V, 2 s		
Passive flammability category In accordance with IEC 40 (CO) 752	B		
Capacitance Tolerances (measured at 1KHz)	$\pm 10\%$ (K), $\pm 20\%$ (M)		
Rated ac voltage ( IEC 60384-14 )	305 V (50/60 Hz)		
Maximum continuous dc voltage ( $V_{DC}$ )	630 V		
Operating ac voltage $V_{op}$ at high temperature	$T_A \leq 105 \text{ }^\circ\text{C}$		$V_{op}=1.25 \cdot V_{AC}$ (1000 h)
	Damp heat test		
Limit values after damp heat test	Test condition		
	1. Temperature : + 40 °C $\pm$ 2 °C Relative humidity (RH) : 93% $\pm$ 2% Test duration : 56 days  2. Temperature : + 85 °C $\pm$ 2 °C Relative humidity (RH) : 85% $\pm$ 2% Test duration : 200 hours  3. Temperature : + 40 °C $\pm$ 2 °C Relative humidity (RH) : 93% $\pm$ 2% Test duration : 500 hours Voltage value : 230 Vac, 50Hz		
Capacitance change ( $\Delta C / C$ ) :		$\leq 5\%$	
Dissipation factor change ( $\Delta \tan \delta$ ) :		$\leq 0,5 \cdot 10^{-3}$ (at 1 kHz) $\leq 1,0 \cdot 10^{-3}$ (at 10 kHz)	
Insulation resistance $R_{is}$ :		$\geq 50\%$ of minimum as-delivered values	
or time constant $\tau = C_R \cdot R_{is}$			



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**Pulse handling capability**

dV/dT values represents the maximum permissible voltage change per unit of time for non-sinusoidal voltages (pulse, sawtooth) and is measured in terms of V/ $\mu$ s.

Ko is the content of energy of the waveform applied to the capacitor by a pulse waveform and is measured in terms of V<sup>2</sup>/ $\mu$ s.

**dV/dt and Ko values**

<b>Lead Space in (mm)</b>	10	15	22,5	27,5
<b>Version</b>	C / D	C / D	C / D	C / D
<b>dV/dT in ( V/<math>\mu</math>s )</b>	475	340	170	120
<b>Ko in ( V<sup>2</sup>/<math>\mu</math>s )</b>	408500	292400	146200	103200

Note: The maximum values of dV/dT and Ko must not be exceeded in order to avoid overheating of the capacitor.