



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	Fan application
Ordering code:	B32415G*
Date:	2018-08-17
Version:	4

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EPCOS AG is a TDK Group Company.

Construction

- Metallized polypropylene film
- Plastic case
- Polyurethane
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- High insulation resistance
- Compliance to IS 1709
- $\varnothing 25$ mm and $\varnothing 27$ mm versions available

Typical applications



- For general sine wave applications, mainly as motor run capacitor for fans

Terminals

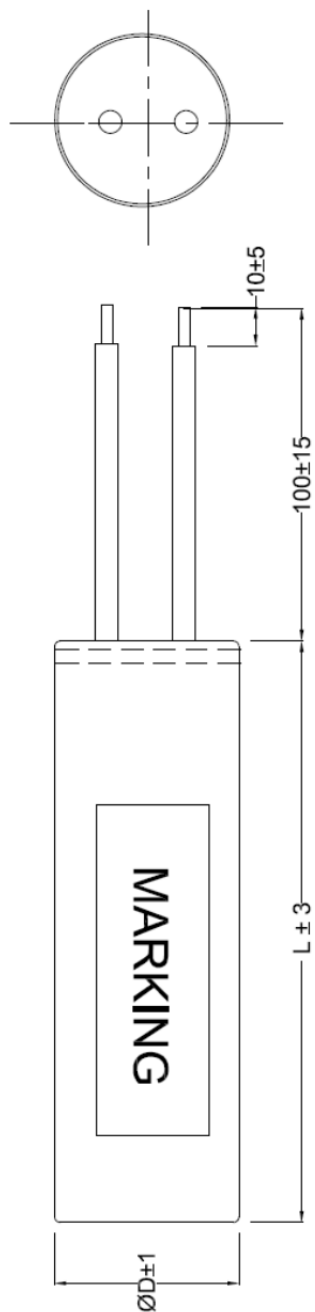
- Flexible wire terminals



Technical data and specifications		
Reference standards	IS 1709	
Safety class	P 0	
Rated capacitance C_R	As per dimension table	
Tolerance	$\pm 5\%$	
Rated voltage V_R	440 V AC	
Rated frequency f_R	50 Hz	
Maximum ratings		
Maximum permissible voltage V_{max}	1.1 V_R	(V_R = rated voltage)
Maximum permissible current I_{max}	1.3 I_R	(I_R = rated current)

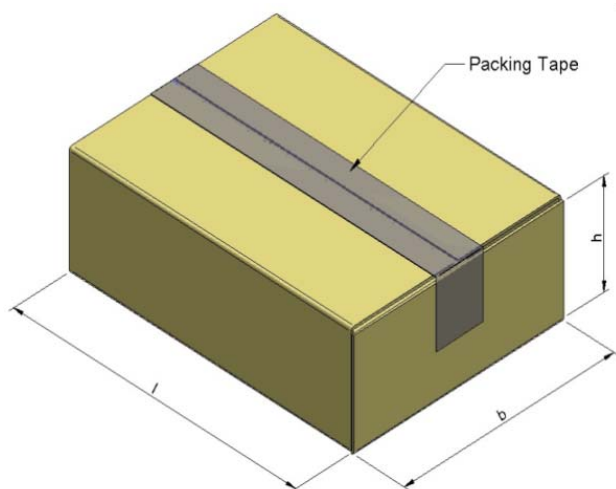
Test data													
AC test voltage terminal to terminal V_{TT}	1.5 V_R , 2 s (routine test) 1.5 V_R , 10 s (type test)												
Insulation resistance R_{ins} or time constant τ at +20 °C, Rel. Humidity \leq 65%(minimum as-delivered values)	3,000 s												
Dissipation factor $\tan \delta$ at +20 °C	$\leq 4.0 \times 10^{-3}$ (1KHz)												
Maximum rate of voltage rise dv/dt_{max}	10 V/ μ s												
Climatic data													
Climatic category	25/085/21 to IEC 60068-1												
Lower category T_{min}	-25 °C												
Upper category T_{max}	+85 °C												
Damp heat test t_{test}	21 days												
Mechanical and thermal properties													
Can and top disk material	Plastic as per IS 1709												
Compatibility to RoHS													
Compliance to directive 2011/65/EU													
Marking	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">C_x μF</td> <td style="text-align: center;">V_{RMS}</td> </tr> <tr> <td style="text-align: center;">$T_x\%$</td> <td style="text-align: center;">VAC</td> </tr> <tr> <td style="text-align: center;">50/60Hz</td> <td style="text-align: center;">B32415G</td> </tr> <tr> <td style="text-align: center;">IS: 1709</td> <td style="text-align: center;">MPP 'SH'</td> </tr> <tr> <td style="text-align: center;">25/085/21</td> <td style="text-align: center;">PO Number</td> </tr> <tr> <td style="text-align: center;">WW.YY</td> <td></td> </tr> </table> </div> <p>Where, C_x – Capacitance value V_{RMS} – Rated Voltage $T_x\%$– Tolerance on capacitance WW.YY – Week code PO Number – Internal traceability number</p>	C_x μ F	V_{RMS}	$T_x\%$	VAC	50/60Hz	B32415G	IS: 1709	MPP 'SH'	25/085/21	PO Number	WW.YY	
C_x μ F	V_{RMS}												
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25/085/21	PO Number												
WW.YY													

Dimensional drawing



Ordering codes and packing units (Ø25 mm type)

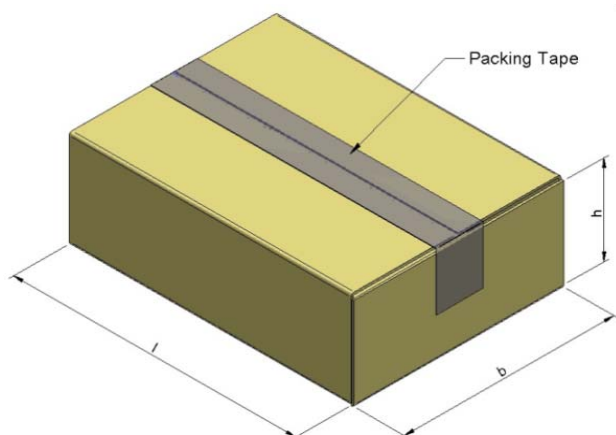
Voltage VAC	Capacitance µF	Dimensions ØD x L (mm)	Ordering code
440	1	25 x 40	B32415G5105J213
	1.25	25 x 50	B32415G5125J523
	1.5	25 x 40	B32415G5155J213
	2	25 x 40	B32415G5205J213
	2.25	25 x 40	B32415G5225J213
	2.5	25 x 40	B32415G5255J213
	3.15	25 x 40	B32415G5315J213
	4	25 x 50	B32415G5405J213

Packaging specification


Dimensions D x L (mm)	Unit carton				Master carton			
	l ±10	b ±10	h ±10	Qty	l ±10	b ±10	h ±10	Qty
25 x 40	340	170	170	100	630	310	400	600
25 x 50	340	170	170	100	630	310	400	600


Ordering codes and packing units ($\varnothing 27$ mm type)

Voltage VAC	Capacitance μF	Dimensions $\varnothing\text{D} \times \text{L}$ (mm)	Ordering code
440	1.5	27 x 50	B32415G5155J214
	2	27 x 50	B32415G5205J214
	2.25	27 x 50	B32415G5225J214
	2.5	27 x 50	B32415G5255J214
	3.15	27 x 50	B32415G5315J214
	4	27 x 50	B32415G5405J214

Packaging specification ($\varnothing 27$ mm type)


Dimensions D x L (mm)	Unit carton				Master carton			
	l ± 10	b ± 10	h ± 10	Qty	l ± 10	b ± 10	h ± 10	Qty
27 x 50	340	170	170	100	630	310	400	600

Cautions and warnings

 Please read “Applications warning, installation and maintenance instructions” and the “General Safety Data Sheet for Power Capacitors” issued by ZVEI, which are available on the internet at www.epcos.com/ac_capacitors, to ensure optimum performance and to prevent products from failing, and in worst case, bursting and fire. Information given in the data sheet reflects typical specifications. You are kindly requested to approve our product specifications or request our approval for our specification before ordering.

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