

KMH Series

UNITED
CHEMI-CON

- Large Can
- Screw Terminal
- Long Life
- High CV
- High Ripple Current Ratings
- +105°C Maximum Temperature



The KMH series capacitors are computer grade capacitors designed for a very long lifetime. These capacitors have a rated lifetime of 2,000 hours with the rated ripple current applied at +105°C. The KMH series capacitors also have a very high CV value and high ripple current ratings, making them ideal for use in power supplies.

Summary of Specifications

- Screw terminals.
- Capacitance range: 180 to 680,000 μ F.
- Voltage range: 10 to 400VDC.
- Operating temperature range: -40°C to +105°C for 10 to 100V; -25°C to +105°C for 160 to 400V.
- Leakage current: 0.02CV(μ A) or 5mA, whichever is smaller, after 5 minutes at +20°C.
- Standard capacitance tolerance: $\pm 20\%$
- Nominal case size (D $\times$ L): 35 $\times$ 50mm to 89 $\times$ 140mm.
- Rated lifetime: 2,000 hours at +105°C with the rated ripple current applied.

KMH Series

KMH Specifications

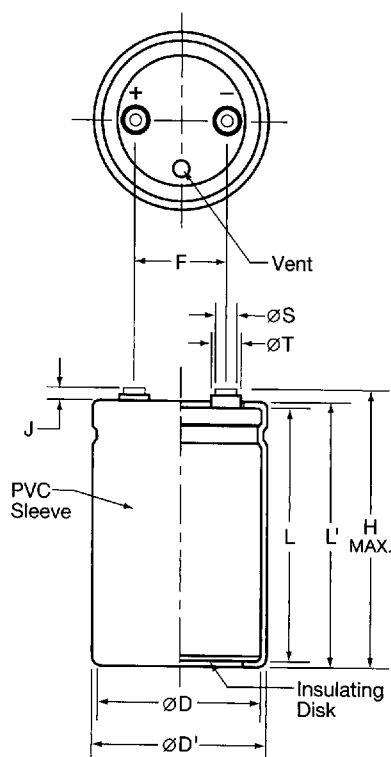
Item	Characteristics																																																																																												
Rated Voltage Range	10 to 100VDC	160 to 400VDC																																																																																											
Operating Temperature Range	- 40 to +105°C	- 25 to +105°C																																																																																											
Capacitance Range	1,800 to 680,000μF	180 to 27,000μF																																																																																											
Capacitance Tolerance	± 20% (M) at +20°C, 120Hz																																																																																												
Leakage Current	I = 0.02CV (μA) or 5mA, whichever is smaller, after 5 minutes at +20°C. Where I = Leakage current (μA), C = Nominal capacitance (μF) and V = Rated voltage (V)																																																																																												
Dissipation Factor (Tan δ)	Tan δ (DF) at +20°C, 120Hz shall not exceed the values given in the Ratings Tables.																																																																																												
Low Temperature Characteristics	Capacitance change at 120Hz: 10-100V : Capacitance at - 40°C shall not be less than 60% of the specified value at +20°C. 160-400V: Capacitance at - 25°C shall not be less than 70% of the specified value at +20°C.																																																																																												
Ripple Current Multipliers <i>Refer to Section 4 of the Mini-Glossary for explanation of Ripple Current Multipliers.</i>	Ambient Temperature (°C) <table><tr><td>≤ +45°C</td><td>+65°C</td><td>+85°C</td><td>+105°C</td></tr><tr><td>2.47</td><td>2.26</td><td>1.75</td><td>1.00</td></tr></table> Frequency (Hz) <table><tr><td>DC Rated Voltage</td><td>Case Diameter</td><td>50Hz</td><td>120Hz</td><td>300Hz</td><td>1kHz</td><td>10kHz</td><td>50kHz</td></tr><tr><td>10-50V</td><td>ø35-ø89</td><td>0.95</td><td>1.00</td><td>1.03</td><td>1.05</td><td>1.09</td><td>1.12</td></tr><tr><td rowspan="2">63-80V</td><td>ø35</td><td>0.90</td><td>1.00</td><td>1.06</td><td>1.10</td><td>1.18</td><td>1.22</td></tr><tr><td>ø50-ø89</td><td>0.95</td><td>1.00</td><td>1.03</td><td>1.05</td><td>1.09</td><td>1.12</td></tr><tr><td rowspan="3">100V</td><td>ø35</td><td>0.82</td><td>1.00</td><td>1.12</td><td>1.22</td><td>1.30</td><td>1.33</td></tr><tr><td>ø50</td><td>0.90</td><td>1.00</td><td>1.06</td><td>1.10</td><td>1.18</td><td>1.22</td></tr><tr><td>ø63.5-ø89</td><td>0.95</td><td>1.00</td><td>1.03</td><td>1.05</td><td>1.09</td><td>1.12</td></tr><tr><td rowspan="3">160-250V</td><td>ø35</td><td>0.80</td><td>1.00</td><td>1.19</td><td>1.34</td><td>1.46</td><td>1.52</td></tr><tr><td>ø50-ø63.5</td><td>0.81</td><td>1.00</td><td>1.14</td><td>1.26</td><td>1.36</td><td>1.41</td></tr><tr><td>ø76-ø89</td><td>0.82</td><td>1.00</td><td>1.12</td><td>1.22</td><td>1.30</td><td>1.33</td></tr><tr><td>315-400V</td><td>ø35-ø89</td><td>0.80</td><td>1.00</td><td>1.19</td><td>1.34</td><td>1.46</td><td>1.52</td></tr></table>		≤ +45°C	+65°C	+85°C	+105°C	2.47	2.26	1.75	1.00	DC Rated Voltage	Case Diameter	50Hz	120Hz	300Hz	1kHz	10kHz	50kHz	10-50V	ø35-ø89	0.95	1.00	1.03	1.05	1.09	1.12	63-80V	ø35	0.90	1.00	1.06	1.10	1.18	1.22	ø50-ø89	0.95	1.00	1.03	1.05	1.09	1.12	100V	ø35	0.82	1.00	1.12	1.22	1.30	1.33	ø50	0.90	1.00	1.06	1.10	1.18	1.22	ø63.5-ø89	0.95	1.00	1.03	1.05	1.09	1.12	160-250V	ø35	0.80	1.00	1.19	1.34	1.46	1.52	ø50-ø63.5	0.81	1.00	1.14	1.26	1.36	1.41	ø76-ø89	0.82	1.00	1.12	1.22	1.30	1.33	315-400V	ø35-ø89	0.80	1.00	1.19	1.34	1.46	1.52
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Insulation Resistance	The insulation resistance of the sleeve will measure no less than 100 megohms with a 500VDC potential between the mounting clamp and the sleeve. The mounting clamp shall be secured around the sleeve of the capacitor body, and the terminals shall be shorted together.																																																																																												
Dielectric Strength	The insulating sleeve will withstand a voltage of 2,000VAC without electrical breakdown when the voltage is applied between the mounting clamp and the sleeve. The mounting clamp shall be secured around the sleeve of the capacitor body, and the terminals shall be shorted together.																																																																																												
Load Life	The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to the DC rated voltage for 2,000 hours at +105°C with the rated ripple current applied. The sum of DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors. Capacitance change: ≤ ±20% of initial measured value Tan δ (DF) : ≤ 200% of initial specified value Leakage current : ≤ initial specified value																																																																																												
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to +20°C after exposing them for 500 hours at +105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change: ≤ ±20% of initial measured value Tan δ (DF) : ≤ 200% of initial specified value Leakage current : ≤ initial specified value																																																																																												
Others	Satisfies characteristic W of JIS C5141																																																																																												

KMH Series

Diagram of Dimensions

Large Can/Screw Terminals

Unit: mm and inches



Terminal Specifications in Millimeters

Terminal Code	Thread	Thread Depth	J ±0.8 Height	ØS ±0.25 Diameter	ØT ±0.25 Diameter	H Max. Height
LL (ØD ≤ 50.8)	M5	9.5	6.4	8.0	11.1	L + 12
LL (ØD ≥ 63.5)	M5	9.5	6.4	10.0	15.5	L + 12

Terminal Specifications in Inches

Terminal Code	Thread	Thread Depth	J ±0.032 Height	ØS ±0.010 Diameter	ØT ±0.010 Diameter	H Max. Height
LL (ØD ≤ 2.0)	M5	0.375	0.250	0.313	0.438	L + 0.472
LL (ØD ≥ 2.5)	M5	0.375	0.250	0.393	0.610	L + 0.472

Refer to the Mounting Hardware page at the beginning of the Large Can section for mounting brackets and accessories.

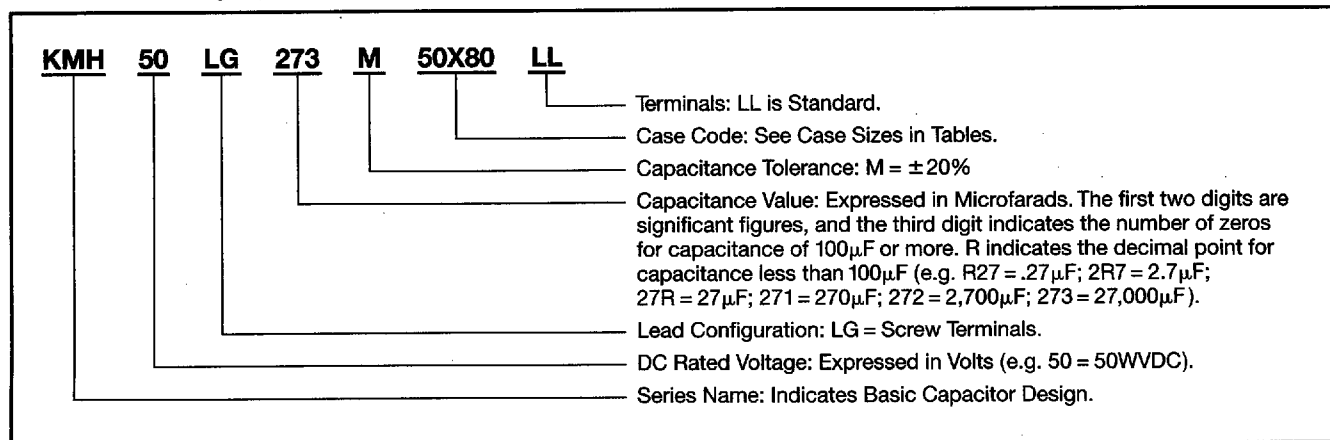
Dimensions in Millimeters and Inches

Case Code*	Bare Can				With Insulating Sleeve				Terminal Spacing	
	mm		inches		mm		inches		mm	inches
	ØD ±1.0	L ±2.0	ØD ±0.04	L ±0.08	ØD' +0.8	L' +4.0 Max.	ØD' +0.032	L' +0.157 Max.	F ±0.40	F ±0.016
35X50	35	50	1.378	1.969	35.8	54	1.409	2.126	12.7	0.500
35X60		60		2.362		64		2.520		
35X80		80		3.150		84		3.307		
35X100		100		3.937		104		4.094		
35X120		120		4.724		124		4.882		
50X80	50	80	1.969	3.150	50.8	84	2.000	3.307	22.4	0.882
50X100		100		3.937		104		4.094		
50X120		120		4.724		124		4.882		
63X100	63.5	100	2.500	3.937	64.3	104	2.531	4.094	28.0	1.102
63X120		120		4.724		124		4.882		
76X100	76	100	2.992	3.937	76.8	104	3.024	4.094	31.5	1.240
76X120		120		4.724		124		4.882		
76X130		130		5.118		134		5.275		
76X140		140		5.512		144		5.669		
89X140	89	140	3.504	5.512	89.8	144	3.535	5.669	31.5	1.240

*The case code does not indicate actual size.

KMH Series

Part Numbering System for KMH Series When ordering, always specify complete catalog number for KMH Series.



Standard Voltage Ratings - LG/Screw Terminals

Rated Voltage (WVDC)	Capacitance (μ F)	Catalog Part Number	Nominal Case Size* D x L (mm)	Dissipation Factor (Tan δ) +20°C, 120Hz	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (A rms) at +105°C, 120Hz
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10 Volts 13 Volts Surge	27,000	KMH10LG273M35X50LL	35 x 50	0.45	0.028	4.9
	33,000	KMH10LG333M35X50LL	35 x 50	0.50	0.025	5.1
	39,000	KMH10LG393M35X60LL	35 x 60	0.50	0.021	5.9
	47,000	KMH10LG473M35X80LL	35 x 80	0.50	0.018	7.1
	56,000	KMH10LG563M35X80LL	35 x 80	0.60	0.018	7.1
	68,000	KMH10LG683M35X100LL	35 x 100	0.60	0.015	8.5
	82,000	KMH10LG823M35X100LL	35 x 100	0.65	0.013	8.9
	100,000	KMH10LG104M35X120LL	35 x 120	0.65	0.011	10.7
	120,000	KMH10LG124M50X80LL	50 x 80	0.75	0.010	11.0
	150,000	KMH10LG154M50X100LL	50 x 100	0.80	0.009	13.2
	180,000	KMH10LG184M50X120LL	50 x 120	0.80	0.007	15.7
	220,000	KMH10LG224M50X120LL	50 x 120	0.85	0.006	16.8
	270,000	KMH10LG274M63X120LL	63.5 x 120	1.00	0.006	19.6
	330,000	KMH10LG334M63X120LL	63.5 x 120	1.20	0.006	19.7
	390,000	KMH10LG394M76X120LL	76 x 120	1.50	0.006	21.3
	470,000	KMH10LG474M76X120LL	76 x 120	1.80	0.006	21.4
	560,000	KMH10LG564M76X140LL	76 x 140	2.00	0.006	23.6
	680,000	KMH10LG684M89X140LL	89 x 140	2.40	0.006	26.0

16 Volts 20 Volts Surge	18,000	KMH16LG183M35X50LL	35 x 50	0.40	0.037	4.2
	22,000	KMH16LG223M35X50LL	35 x 50	0.40	0.030	4.7
	27,000	KMH16LG273M35X60LL	35 x 60	0.40	0.025	5.5
	33,000	KMH16LG333M35X60LL	35 x 60	0.45	0.023	5.7
	39,000	KMH16LG393M35X80LL	35 x 80	0.45	0.019	6.8
	47,000	KMH16LG473M35X80LL	35 x 80	0.50	0.018	7.1
	56,000	KMH16LG563M35X100LL	35 x 100	0.50	0.015	8.4
	68,000	KMH16LG683M35X100LL	35 x 100	0.55	0.013	8.8
	82,000	KMH16LG823M50X80LL	50 x 80	0.55	0.011	10.7
	100,000	KMH16LG104M50X80LL	50 x 80	0.65	0.011	10.8
	120,000	KMH16LG124M50X100LL	50 x 100	0.65	0.009	13.1
	150,000	KMH16LG154M50X120LL	50 x 120	0.70	0.008	15.3
	180,000	KMH16LG184M50X120LL	50 x 120	0.80	0.007	15.7
	220,000	KMH16LG224M63X120LL	63.5 x 120	0.85	0.006	19.2
	270,000	KMH16LG274M63X120LL	63.5 x 120	1.00	0.006	19.6
	330,000	KMH16LG334M76X120LL	76 x 120	1.30	0.007	21.1
	390,000	KMH16LG394M76X120LL	76 x 120	1.50	0.006	21.3
	470,000	KMH16LG474M76X140LL	76 x 140	1.60	0.006	24.2
	560,000	KMH16LG564M89X140LL	89 x 140	2.00	0.006	28.1
	680,000	KMH16LG684M89X140LL	89 x 140	2.40	0.006	28.5

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

KMH Series

Standard Voltage Ratings - LG/Screw Terminals

Rated Voltage (VWDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Dissipation Factor (Tan δ) +20°C, 120Hz	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (A rms) at +105°C, 120Hz
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25 Volts 32 Volts Surge	12,000	KMH25LG123M35X50LL	35 × 50	0.35	0.048	3.7
	15,000	KMH25LG153M35X50LL	35 × 50	0.35	0.039	4.1
	18,000	KMH25LG183M35X60LL	35 × 60	0.35	0.032	4.8
	22,000	KMH25LG223M35X60LL	35 × 60	0.35	0.026	5.3
	27,000	KMH25LG273M35X80LL	35 × 80	0.35	0.021	6.4
	33,000	KMH25LG333M35X80LL	35 × 80	0.40	0.020	6.7
	39,000	KMH25LG393M35X100LL	35 × 100	0.40	0.017	7.8
	47,000	KMH25LG473M35X120LL	35 × 120	0.40	0.014	9.3
	56,000	KMH25LG563M50X80LL	50 × 80	0.45	0.013	9.7
	68,000	KMH25LG683M50X100LL	50 × 100	0.45	0.011	11.2
	82,000	KMH25LG823M50X100LL	50 × 100	0.50	0.010	11.2
	100,000	KMH25LG104M50X120LL	50 × 120	0.50	0.008	14.8
	120,000	KMH25LG124M63X100LL	63.5 × 100	0.65	0.009	14.9
	150,000	KMH25LG154M63X120LL	63.5 × 120	0.65	0.007	17.9
	180,000	KMH25LG184M63X120LL	63.5 × 120	0.80	0.007	17.9
	220,000	KMH25LG224M76X120LL	76 × 120	0.85	0.006	21.3
	270,000	KMH25LG274M76X120LL	76 × 120	1.00	0.006	21.7
	330,000	KMH25LG334M76X140LL	76 × 140	1.20	0.006	23.4
	390,000	KMH25LG394M89X140LL	89 × 140	1.50	0.006	24.9

35 Volts 44 Volts Surge	8,200	KMH35LG822M35X50LL	35 × 50	0.30	0.061	3.3
	10,000	KMH35LG103M35X50LL	35 × 50	0.30	0.050	3.6
	12,000	KMH35LG123M35X60LL	35 × 60	0.30	0.041	4.2
	15,000	KMH35LG153M35X60LL	35 × 60	0.30	0.033	4.7
	18,000	KMH35LG183M35X80LL	35 × 80	0.30	0.028	5.7
	22,000	KMH35LG223M35X80LL	35 × 80	0.30	0.023	6.3
	27,000	KMH35LG273M35X100LL	35 × 100	0.30	0.018	7.5
	33,000	KMH35LG333M35X120LL	35 × 120	0.30	0.015	9.0
	39,000	KMH35LG393M50X80LL	50 × 80	0.35	0.015	9.2
	47,000	KMH35LG473M50X100LL	50 × 100	0.35	0.012	11.2
	56,000	KMH35LG563M50X100LL	50 × 100	0.40	0.012	11.4
	68,000	KMH35LG683M50X120LL	50 × 120	0.40	0.010	13.6
	82,000	KMH35LG823M63X100LL	63.5 × 100	0.45	0.009	14.8
	100,000	KMH35LG104M63X120LL	63.5 × 120	0.45	0.007	17.6
	120,000	KMH35LG124M63X120LL	63.5 × 120	0.55	0.008	17.6
	150,000	KMH35LG154M76X120LL	76 × 120	0.65	0.007	19.8
	180,000	KMH35LG184M76X120LL	76 × 120	0.80	0.007	19.8
	220,000	KMH35LG224M76X140LL	76 × 140	0.80	0.006	23.4
	270,000	KMH35LG274M89X140LL	89 × 140	1.00	0.006	25.5

50 Volts 63 Volts Surge	3,900	KMH50LG392M35X50LL	35 × 50	0.20	0.085	2.8
	4,700	KMH50LG472M35X50LL	35 × 50	0.20	0.071	3.1
	5,600	KMH50LG562M35X50LL	35 × 50	0.20	0.059	3.3
	6,800	KMH50LG682M35X50LL	35 × 50	0.25	0.061	3.3
	8,200	KMH50LG822M35X60LL	35 × 60	0.25	0.051	3.8
	10,000	KMH50LG103M35X80LL	35 × 80	0.25	0.041	4.6
	12,000	KMH50LG123M35X80LL	35 × 80	0.25	0.035	5.1
	15,000	KMH50LG153M35X80LL	35 × 80	0.25	0.028	5.7
	18,000	KMH50LG183M35X100LL	35 × 100	0.25	0.023	6.7
	22,000	KMH50LG223M35X120LL	35 × 120	0.25	0.019	8.1
	27,000	KMH50LG273M50X80LL	50 × 80	0.25	0.015	9.1
	33,000	KMH50LG333M50X100LL	50 × 100	0.25	0.013	11.1
	39,000	KMH50LG393M50X120LL	50 × 120	0.25	0.011	13.1
	47,000	KMH50LG473M50X120LL	50 × 120	0.30	0.011	13.9
	56,000	KMH50LG563M63X100LL	63.5 × 100	0.35	0.010	13.9
	68,000	KMH50LG683M63X120LL	63.5 × 120	0.35	0.009	16.6
	82,000	KMH50LG823M76X120LL	76 × 120	0.40	0.008	18.9
	100,000	KMH50LG104M76X120LL	76 × 120	0.45	0.007	19.5

* The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

KMH Series

Standard Voltage Ratings - LG/Screw Terminals

Rated Voltage (WVDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Dissipation Factor (Tan δ) +20°C, 120Hz	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (A rms) at +105°C, 120Hz
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50 Volts 63 Volts Surge	120,000	KMH50LG124M76X120LL	76 × 120	0.55	0.008	19.5
	150,000	KMH50LG154M89X140LL	89 × 140	0.60	0.007	23.9
	180,000	KMH50LG184M89X140LL	89 × 140	0.75	0.007	23.9

63 Volts 79 Volts Surge	2,700	KMH63LG272M35X50LL	35 × 50	0.20	0.123	2.3
	3,300	KMH63LG332M35X50LL	35 × 50	0.20	0.100	2.5
	3,900	KMH63LG392M35X50LL	35 × 50	0.20	0.085	2.8
	4,700	KMH63LG472M35X50LL	35 × 50	0.20	0.071	3.1
	5,600	KMH63LG562M35X60LL	35 × 60	0.20	0.059	3.5
	6,800	KMH63LG682M35X60LL	35 × 60	0.20	0.049	3.9
	8,200	KMH63LG822M35X80LL	35 × 80	0.20	0.040	4.7
	10,000	KMH63LG103M35X80LL	35 × 80	0.25	0.041	4.7
	12,000	KMH63LG123M35X100LL	35 × 100	0.25	0.035	5.5
	15,000	KMH63LG153M35X120LL	35 × 120	0.25	0.028	6.6
	18,000	KMH63LG183M50X80LL	50 × 80	0.25	0.023	7.4
	22,000	KMH63LG223M50X100LL	50 × 100	0.25	0.019	9.0
	27,000	KMH63LG273M50X120LL	50 × 120	0.25	0.015	10.9
	33,000	KMH63LG333M50X120LL	50 × 120	0.25	0.013	12.0
	39,000	KMH63LG393M63X100LL	63.5 × 100	0.30	0.013	12.5
	47,000	KMH63LG473M63X120LL	63.5 × 120	0.30	0.011	14.9
	56,000	KMH63LG563M63X120LL	63.5 × 120	0.30	0.009	16.3
	68,000	KMH63LG683M76X120LL	76 × 120	0.35	0.009	18.4
	82,000	KMH63LG823M76X140LL	76 × 140	0.40	0.008	20.0
	100,000	KMH63LG104M76X140LL	76 × 140	0.50	0.008	20.0
	120,000	KMH63LG124M89X140LL	89 × 140	0.60	0.008	21.8

80 Volts 100 Volts Surge	2,200	KMH80LG222M35X50LL	35 × 50	0.15	0.113	2.4
	2,700	KMH80LG272M35X50LL	35 × 50	0.15	0.092	2.7
	3,300	KMH80LG332M35X50LL	35 × 50	0.15	0.075	3.0
	3,900	KMH80LG392M35X60LL	35 × 60	0.15	0.064	3.4
	4,700	KMH80LG472M35X60LL	35 × 60	0.15	0.053	3.7
	5,600	KMH80LG562M35X80LL	35 × 80	0.15	0.044	4.5
	6,800	KMH80LG682M35X80LL	35 × 80	0.15	0.037	4.9
	8,200	KMH80LG822M35X100LL	35 × 100	0.20	0.040	5.1
	10,000	KMH80LG103M35X120LL	35 × 120	0.20	0.033	6.1
	12,000	KMH80LG123M50X80LL	50 × 80	0.20	0.028	6.7
	15,000	KMH80LG153M50X100LL	50 × 100	0.20	0.022	8.3
	18,000	KMH80LG183M50X120LL	50 × 120	0.20	0.018	9.9
	22,000	KMH80LG223M50X120LL	50 × 120	0.20	0.015	11.0
	27,000	KMH80LG273M63X100LL	63.5 × 100	0.25	0.015	11.4
	33,000	KMH80LG333M76X100LL	76 × 100	0.25	0.013	13.9
	39,000	KMH80LG393M76X100LL	76 × 100	0.30	0.013	13.9
	47,000	KMH80LG473M76X120LL	76 × 120	0.30	0.011	16.5
	56,000	KMH80LG563M76X120LL	76 × 120	0.30	0.009	18.1
	68,000	KMH80LG683M76X140LL	76 × 140	0.35	0.009	19.7
	82,000	KMH80LG823M89X140LL	89 × 140	0.40	0.008	22.1

100 Volts 125 Volts Surge	1,800	KMH100LG182M35X50LL	35 × 50	0.10	0.092	2.7
	2,200	KMH100LG222M35X50LL	35 × 50	0.10	0.075	3.0
	2,700	KMH100LG272M35X60LL	35 × 60	0.10	0.061	3.5
	3,300	KMH100LG332M35X80LL	35 × 80	0.10	0.050	4.2
	3,900	KMH100LG392M35X80LL	35 × 80	0.12	0.051	4.2
	4,700	KMH100LG472M35X100LL	35 × 100	0.12	0.042	5.0
	5,600	KMH100LG562M35X100LL	35 × 100	0.12	0.036	5.4
	6,800	KMH100LG682M35X120LL	35 × 120	0.15	0.037	5.8
	8,200	KMH100LG822M50X80LL	50 × 80	0.15	0.030	6.4
	10,000	KMH100LG103M50X100LL	50 × 100	0.15	0.025	7.8
	12,000	KMH100LG123M50X120LL	50 × 120	0.15	0.021	9.3
	15,000	KMH100LG153M50X120LL	50 × 120	0.15	0.017	10.4

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

KMH Series

Standard Voltage Ratings - LG/Screw Terminals

Rated Voltage (VWDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Dissipation Factor (Tan δ) +20°C, 120Hz	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (A rms) at +105°C, 120Hz
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100 Volts 125 Volts Surge	18,000	KMH100LG183M63X100LL	63.5 × 100	0.20	0.018	10.4
	22,000	KMH100LG223M63X120LL	63.5 × 120	0.20	0.015	12.5
	27,000	KMH100LG273M76X120LL	76 × 120	0.25	0.015	13.7
	33,000	KMH100LG333M76X120LL	76 × 120	0.25	0.013	15.2
	39,000	KMH100LG393M76X140LL	76 × 140	0.30	0.013	16.1
	47,000	KMH100LG473M89X140LL	89 × 140	0.30	0.011	19.3
	56,000	KMH100LG563M89X140LL	89 × 140	0.30	0.009	21.1

160 Volts 200 Volts Surge	560	KMH160LG561M35X50LL	35 × 50	0.15	0.444	1.2
	680	KMH160LG681M35X50LL	35 × 50	0.15	0.366	1.3
	820	KMH160LG821M35X50LL	35 × 50	0.15	0.303	1.4
	1,000	KMH160LG102M35X50LL	35 × 50	0.15	0.249	1.6
	1,200	KMH160LG122M35X60LL	35 × 60	0.15	0.207	1.9
	1,500	KMH160LG152M35X60LL	35 × 60	0.15	0.166	2.1
	1,800	KMH160LG182M35X80LL	35 × 80	0.15	0.138	2.5
	2,200	KMH160LG222M35X80LL	35 × 80	0.15	0.113	2.8
	2,700	KMH160LG272M35X100LL	35 × 100	0.15	0.092	3.3
	3,300	KMH160LG332M35X120LL	35 × 120	0.15	0.075	3.8
	3,900	KMH160LG392M50X80LL	50 × 80	0.20	0.085	3.8
	4,700	KMH160LG472M50X100LL	50 × 100	0.20	0.071	4.6
	5,600	KMH160LG562M50X100LL	50 × 100	0.20	0.059	5.1
	6,800	KMH160LG682M50X120LL	50 × 120	0.20	0.049	6.1
	8,200	KMH160LG822M63X100LL	63.5 × 100	0.20	0.040	7.0
	10,000	KMH160LG103M63X120LL	63.5 × 120	0.20	0.033	8.4
	12,000	KMH160LG123M76X100LL	76 × 100	0.20	0.028	9.4
	15,000	KMH160LG153M76X120LL	76 × 120	0.20	0.022	11.4
	18,000	KMH160LG183M76X140LL	76 × 140	0.20	0.018	13.4
	22,000	KMH160LG223M89X140LL	89 × 140	0.25	0.019	14.5
	27,000	KMH160LG273M89X140LL	89 × 140	0.25	0.015	16.0

200 Volts 250 Volts Surge	330	KMH200LG331M35X50LL	35 × 50	0.15	0.753	0.9
	390	KMH200LG391M35X50LL	35 × 50	0.15	0.638	1.0
	470	KMH200LG471M35X50LL	35 × 50	0.15	0.529	1.1
	560	KMH200LG561M35X50LL	35 × 50	0.15	0.444	1.2
	680	KMH200LG681M35X50LL	35 × 50	0.15	0.366	1.3
	820	KMH200LG821M35X50LL	35 × 50	0.15	0.303	1.4
	1,000	KMH200LG102M35X60LL	35 × 60	0.15	0.249	1.7
	1,200	KMH200LG122M35X60LL	35 × 60	0.15	0.207	1.9
	1,500	KMH200LG152M35X80LL	35 × 80	0.15	0.166	2.3
	1,800	KMH200LG182M35X80LL	35 × 80	0.15	0.138	2.5
	2,200	KMH200LG222M35X100LL	35 × 100	0.15	0.113	3.0
	2,700	KMH200LG272M35X120LL	35 × 120	0.15	0.092	3.6
	3,300	KMH200LG332M50X80LL	50 × 80	0.15	0.075	4.1
	3,900	KMH200LG392M50X100LL	50 × 100	0.15	0.064	4.9
	4,700	KMH200LG472M63X100LL	63.5 × 100	0.20	0.071	5.3
	5,600	KMH200LG562M63X100LL	63.5 × 100	0.20	0.059	5.8
	6,800	KMH200LG682M63X120LL	63.5 × 120	0.20	0.049	6.9
	8,200	KMH200LG822M63X120LL	63.5 × 120	0.20	0.040	7.6
	10,000	KMH200LG103M76X120LL	76 × 120	0.20	0.033	9.3
	12,000	KMH200LG123M76X120LL	76 × 120	0.20	0.028	10.2
	15,000	KMH200LG153M76X140LL	76 × 140	0.20	0.022	12.2
	18,000	KMH200LG183M89X140LL	89 × 140	0.25	0.023	13.1

250 Volts 300 Volts Surge	270	KMH250LG271M35X50LL	35 × 50	0.15	0.921	0.8
	330	KMH250LG331M35X50LL	35 × 50	0.15	0.753	0.9
	390	KMH250LG391M35X50LL	35 × 50	0.15	0.638	1.0
	470	KMH250LG471M35X50LL	35 × 50	0.15	0.529	1.1
	560	KMH250LG561M35X50LL	35 × 50	0.15	0.444	1.2
	680	KMH250LG681M35X60LL	35 × 60	0.15	0.366	1.4

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

KMH Series

Standard Voltage Ratings - LG/Screw Terminals

Rated Voltage (VVDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Dissipation Factor (Tan δ) +20°C, 120Hz	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (A rms) at +105°C, 120Hz
250 Volts 300 Volts Surge	820	KMH250LG821M35X80LL	35 × 80	0.15	0.303	1.6
	1,000	KMH250LG102M35X80LL	35 × 80	0.20	0.332	1.6
	1,200	KMH250LG122M35X80LL	35 × 80	0.20	0.276	1.8
	1,500	KMH250LG152M35X100LL	35 × 100	0.20	0.221	2.1
	1,800	KMH250LG182M35X120LL	35 × 120	0.20	0.184	2.5
	2,200	KMH250LG222M50X80LL	50 × 80	0.20	0.151	2.9
	2,700	KMH250LG272M50X100LL	50 × 100	0.20	0.123	3.5
	3,300	KMH250LG332M50X120LL	50 × 120	0.20	0.100	4.2
	3,900	KMH250LG392M50X120LL	50 × 120	0.20	0.085	4.6
	4,700	KMH250LG472M63X120LL	63.5 × 120	0.20	0.071	5.7
	5,600	KMH250LG562M63X120LL	63.5 × 120	0.20	0.059	6.3
	6,800	KMH250LG682M76X120LL	76 × 120	0.20	0.049	7.7
	8,200	KMH250LG822M76X120LL	76 × 120	0.20	0.040	8.4
	10,000	KMH250LG103M76X140LL	76 × 140	0.20	0.033	10.0
	12,000	KMH250LG123M89X140LL	89 × 140	0.20	0.028	11.9
315 Volts 365 Volts Surge	180	KMH315LG181M35X50LL	35 × 50	0.10	0.921	0.8
	220	KMH315LG221M35X50LL	35 × 50	0.10	0.753	0.9
	270	KMH315LG271M35X50LL	35 × 50	0.10	0.614	1.0
	330	KMH315LG331M35X50LL	35 × 50	0.10	0.502	1.1
	390	KMH315LG391M35X50LL	35 × 50	0.10	0.425	1.2
	470	KMH315LG471M35X60LL	35 × 60	0.10	0.353	1.4
	560	KMH315LG561M35X60LL	35 × 60	0.10	0.296	1.5
	680	KMH315LG681M35X80LL	35 × 80	0.10	0.244	1.7
	820	KMH315LG821M35X80LL	35 × 80	0.15	0.303	1.7
	1,000	KMH315LG102M35X100LL	35 × 100	0.15	0.249	2.0
	1,200	KMH315LG122M35X120LL	35 × 120	0.15	0.207	2.4
	1,500	KMH315LG152M50X80LL	50 × 80	0.15	0.166	2.7
	1,800	KMH315LG182M50X100LL	50 × 100	0.15	0.138	3.3
	2,200	KMH315LG222M50X120LL	50 × 120	0.15	0.113	4.0
	2,700	KMH315LG272M50X120LL	50 × 120	0.15	0.092	4.4
	3,300	KMH315LG332M63X100LL	63.5 × 100	0.15	0.075	5.1
	3,900	KMH315LG392M63X120LL	63.5 × 120	0.15	0.064	6.0
	4,700	KMH315LG472M76X100LL	76 × 100	0.15	0.053	6.8
	5,600	KMH315LG562M76X120LL	76 × 120	0.15	0.044	8.0
	6,800	KMH315LG682M76X130LL	76 × 130	0.15	0.037	9.2
	8,200	KMH315LG822M89X140LL	89 × 140	0.15	0.030	11.4
	10,000	KMH315LG103M89X140LL	89 × 140	0.15	0.025	12.6
350 Volts 400 Volts Surge	180	KMH350LG181M35X50LL	35 × 50	0.10	0.921	0.8
	220	KMH350LG221M35X50LL	35 × 50	0.10	0.753	0.9
	270	KMH350LG271M35X50LL	35 × 50	0.10	0.614	1.0
	330	KMH350LG331M35X50LL	35 × 50	0.10	0.502	1.1
	390	KMH350LG391M35X60LL	35 × 60	0.10	0.425	1.3
	470	KMH350LG471M35X60LL	35 × 60	0.10	0.353	1.4
	560	KMH350LG561M35X80LL	35 × 80	0.10	0.296	1.6
	680	KMH350LG681M35X80LL	35 × 80	0.15	0.366	1.6
	820	KMH350LG821M35X100LL	35 × 100	0.15	0.303	1.8
	1,000	KMH350LG102M35X120LL	35 × 120	0.15	0.249	2.2
	1,200	KMH350LG122M50X80LL	50 × 80	0.15	0.207	2.4
	1,500	KMH350LG152M50X100LL	50 × 100	0.15	0.166	3.0
	1,800	KMH350LG182M50X120LL	50 × 120	0.15	0.138	3.6
	2,200	KMH350LG222M50X120LL	50 × 120	0.15	0.113	4.0
	2,700	KMH350LG272M63X100LL	63.5 × 100	0.15	0.092	4.6
	3,900	KMH350LG392M76X120LL	76 × 120	0.15	0.064	6.7
	5,600	KMH350LG562M76X130LL	76 × 130	0.15	0.044	8.3
	6,800	KMH350LG682M76X140LL	76 × 140	0.15	0.037	9.5
	8,200	KMH350LG822M89X140LL	89 × 140	0.15	0.030	11.4

* The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

KMH Series

Standard Voltage Ratings - LG/Screw Terminals

Rated Voltage (WVDC)	Capacitance (μF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Dissipation Factor (Tan δ) +20°C, 120Hz	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (A rms) at +105°C, 120Hz
400 Volts 450 Volts Surge	180	KMH400LG181M35X50LL	35 × 50	0.10	0.921	0.8
	220	KMH400LG221M35X50LL	35 × 50	0.10	0.753	0.9
	270	KMH400LG271M35X50LL	35 × 50	0.10	0.614	1.0
	330	KMH400LG331M35X60LL	35 × 60	0.10	0.502	1.2
	390	KMH400LG391M35X60LL	35 × 60	0.10	0.425	1.3
	470	KMH400LG471M35X80LL	35 × 80	0.10	0.353	1.4
	560	KMH400LG561M35X80LL	35 × 80	0.15	0.444	1.4
	680	KMH400LG681M35X100LL	35 × 100	0.15	0.366	1.7
	820	KMH400LG821M35X120LL	35 × 120	0.15	0.303	2.0
	1,000	KMH400LG102M50X80LL	50 × 80	0.15	0.249	2.2
	1,200	KMH400LG122M50X100LL	50 × 100	0.15	0.207	2.7
	1,500	KMH400LG152M50X120LL	50 × 120	0.15	0.166	3.3
	2,200	KMH400LG222M63X100LL	63.5 × 100	0.15	0.113	4.2
	3,300	KMH400LG332M63X120LL	63.5 × 120	0.15	0.075	5.5
	4,700	KMH400LG472M76X130LL	76 × 130	0.15	0.053	7.6
	5,600	KMH400LG562M89X140LL	89 × 140	0.15	0.044	9.4
	6,800	KMH400LG682M89X140LL	89 × 140	0.15	0.037	10.4

*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.