

LKX2W331MESB45 Datasheet



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DiGi Electronics Part Number	LKX2W331MESB45-DG
Manufacturer	Nichicon
Manufacturer Product Number	LKX2W331MESB45
Description	CAP ALUM 330UF 20% 450V SNAP
Detailed Description	330 μ F 450 V Aluminum Electrolytic Capacitors Radial, Can - Snap-In 2000 Hrs @ 105°C

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Purchase and inquiry

Manufacturer Product Number:

LKX2W331MESB45

Series:

LKX

Capacitance:

330 μ F

Voltage - Rated:

450 V

Lifetime @ Temp.:

2000 Hrs @ 105°C

Polarization:

Polar

Applications:

Audio

Ripple Current @ High Frequency:

1.9734 A @ 50 kHz

Size / Dimension:

1.181" Dia (30.00mm)

Surface Mount Land Size:

-

Package / Case:

Radial, Can - Snap-In

Manufacturer:

Nichicon

Product Status:

Active

Tolerance:

\pm 20%

ESR (Equivalent Series Resistance):

-

Operating Temperature:

-25°C ~ 105°C

Ratings:

-

Ripple Current @ Low Frequency:

1.38 A @ 120 Hz

Lead Spacing:

0.394" (10.00mm)

Height - Seated (Max):

1.850" (47.00mm)

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.22.0040

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

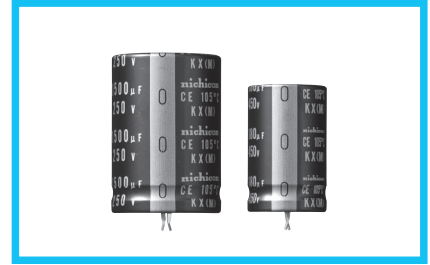
ALUMINUM ELECTROLYTIC CAPACITORS



Snap-in Terminal Type, For Audio Equipment, of Switching Power Supplies



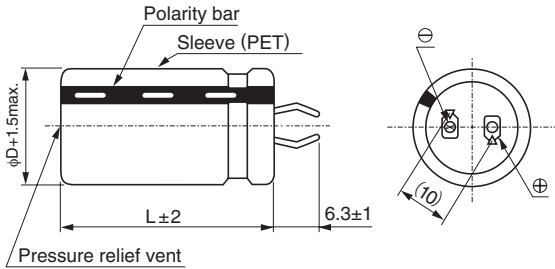
- In order to get high quality sound from 105°C standard series.
- Selected materials to achieve superior acoustic sound.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



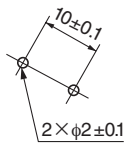
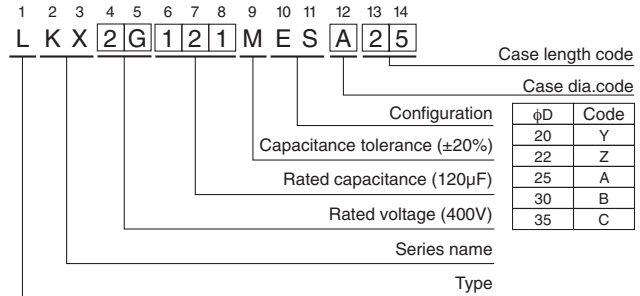
Specifications

Item	Performance Characteristics		
Category Temperature Range	- 40 to +105°C (200 • 250V), - 25 to + 105°C (400 • 450V)		
Rated Voltage Range	200 to 450V		
Rated Capacitance Range	56 to 2200µF		
Capacitance Tolerance	±20% at 120Hz, 20°C		
Leakage Current	$I \leq 3\sqrt{3V}$ (µA) (After 5 minutes' application of rated voltage at 20°C) [C: Rated Capacitance(µF), V: Voltage (V)]		
Tangent of loss angle (tan δ)	See refer to next page (Measurement frequency : 120Hz at 20°C)		
Stability at Low Temperature	Rated voltage (V)		Measurement frequency : 120Hz
	Impedance ratio (max.)		
Endurance	Z(-25°C) / Z(+20°C)		200 to 250
	Z(-40°C) / Z(+20°C)		400 to 450
Shelf Life	Capacitance change	Within ±20% of the initial capacitance value	
	tan δ	200% or less than the initial specified value	
	Leakage current	Less than or equal to the initial specified value	
Marking	Capacitance change	Within ±15% of the initial capacitance value	
	tan δ	150% or less than the initial specified value	
	Leakage current	Less than or equal to the initial specified value	
Marking	Printed with gold color letter on black sleeve.		

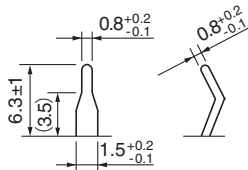
Drawing



Type numbering system (Example : 400 V 120µF , Dia.φ25)



(PC board hole dimensions)



(Terminal dimensions)

Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k	50k or more
Coeff.	200 to 250V	0.81	0.85	1.00	1.17	1.32	1.45
	400 to 450V	0.77	0.82	1.00	1.16	1.30	1.41

● Dimension table in next page.

ALUMINUM ELECTROLYTIC CAPACITORS

LKX

■ Dimensions

200V (2D)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
220	20 × 25	0.90	0.15	LKX2D221MESY25
270	20 × 30	0.99	0.15	LKX2D271MESY30
	22 × 25	0.99	0.15	LKX2D271MESZ25
330	20 × 35	1.20	0.15	LKX2D331MESY35
390	20 × 40	1.31	0.15	LKX2D391MESY40
	22 × 30	1.31	0.15	LKX2D391MESZ30
	25 × 25	1.31	0.15	LKX2D391MESA25
470	20 × 45	1.48	0.15	LKX2D471MESY45
	22 × 35	1.48	0.15	LKX2D471MESZ35
	25 × 30	1.48	0.15	LKX2D471MESA30
560	20 × 50	1.60	0.15	LKX2D561MESY50
	22 × 40	1.60	0.15	LKX2D561MESZ40
	25 × 35	1.60	0.15	LKX2D561MESA35
680	22 × 45	1.75	0.15	LKX2D681MESZ45
	25 × 40	1.75	0.15	LKX2D681MESA40
	30 × 30	1.75	0.15	LKX2D681MESB30
	35 × 25	1.75	0.15	LKX2D681MESC25
820	25 × 45	2.04	0.15	LKX2D821MESA45
	30 × 35	2.04	0.15	LKX2D821MESB35
1000	25 × 50	2.30	0.15	LKX2D102MESA50
	30 × 40	2.30	0.15	LKX2D102MESB40
	35 × 30	2.30	0.15	LKX2D102MESC30
1200	30 × 45	2.65	0.15	LKX2D122MESB45
	35 × 35	2.65	0.15	LKX2D122MESC35
1500	30 × 50	2.80	0.15	LKX2D152MESB50
	35 × 40	2.80	0.15	LKX2D152MESC40
1800	35 × 45	3.08	0.15	LKX2D182MESC45
2200	35 × 50	3.48	0.15	LKX2D222MESC50

400V (2G)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
68	20 × 25	0.49	0.15	LKX2G680MESY25
82	20 × 30	0.64	0.15	LKX2G820MESY30
	22 × 25	0.64	0.15	LKX2G820MESZ25
100	20 × 35	0.68	0.15	LKX2G101MESY35
120	20 × 35	0.73	0.15	LKX2G121MESY35
	22 × 30	0.73	0.15	LKX2G121MESZ30
	25 × 25	0.73	0.15	LKX2G121MESA25
150	20 × 45	0.85	0.15	LKX2G151MESY45
	22 × 35	0.85	0.15	LKX2G151MESZ35
	25 × 30	0.85	0.15	LKX2G151MESA30
180	20 × 50	0.95	0.15	LKX2G181MESY50
	22 × 40	0.95	0.15	LKX2G181MESZ40
	25 × 35	0.95	0.15	LKX2G181MESA35
220	22 × 50	1.10	0.15	LKX2G221MESZ50
	25 × 40	1.10	0.15	LKX2G221MESA40
	30 × 30	1.10	0.15	LKX2G221MESB30
	35 × 25	1.10	0.15	LKX2G221MESC25
270	25 × 45	1.22	0.15	LKX2G271MESA45
	30 × 35	1.22	0.15	LKX2G271MESB35
330	25 × 50	1.44	0.15	LKX2G331MESA50
	30 × 40	1.44	0.15	LKX2G331MESB40
	35 × 30	1.44	0.15	LKX2G331MESC30
390	30 × 45	1.55	0.15	LKX2G391MESB45
	35 × 35	1.55	0.15	LKX2G391MESC35
470	30 × 50	1.68	0.15	LKX2G471MESB50
	35 × 40	1.68	0.15	LKX2G471MESC40
560	35 × 45	1.90	0.15	LKX2G561MESC45
680	35 × 50	2.12	0.15	LKX2G681MESC50

250V (2E)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
180	20 × 25	0.90	0.15	LKX2E181MESY25
220	20 × 30	1.00	0.15	LKX2E221MESY30
	22 × 25	1.00	0.15	LKX2E221MESZ25
270	20 × 35	1.10	0.15	LKX2E271MESY35
	22 × 30	1.10	0.15	LKX2E271MESZ30
330	20 × 40	1.20	0.15	LKX2E331MESY40
	22 × 35	1.20	0.15	LKX2E331MESZ35
	25 × 25	1.20	0.15	LKX2E331MESA25
390	20 × 45	1.30	0.15	LKX2E391MESY45
	22 × 40	1.30	0.15	LKX2E391MESZ40
	25 × 30	1.30	0.15	LKX2E391MESA30
470	20 × 50	1.40	0.15	LKX2E471MESY50
	22 × 45	1.40	0.15	LKX2E471MESZ45
	25 × 35	1.40	0.15	LKX2E471MESA35
560	30 × 25	1.40	0.15	LKX2E471MESB25
	22 × 50	1.50	0.15	LKX2E561MESZ50
	25 × 40	1.50	0.15	LKX2E561MESA40
	30 × 30	1.50	0.15	LKX2E561MESB30
680	35 × 25	1.50	0.15	LKX2E561MESC25
	25 × 50	1.70	0.15	LKX2E681MESA50
820	30 × 40	2.00	0.15	LKX2E821MESB40
	35 × 30	2.00	0.15	LKX2E821MESC30
1000	30 × 45	2.20	0.15	LKX2E102MESB45
	35 × 35	2.20	0.15	LKX2E102MESC35
1200	35 × 40	2.30	0.15	LKX2E122MESC40
1500	35 × 50	2.50	0.15	LKX2E152MESC50

450V (2W)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
56	20 × 25	0.44	0.20	LKX2W560MESY25
68	20 × 30	0.50	0.20	LKX2W680MESY30
82	20 × 35	0.64	0.20	LKX2W820MESY35
	22 × 30	0.64	0.20	LKX2W820MESZ30
100	20 × 40	0.69	0.20	LKX2W101MESY40
	22 × 30	0.69	0.20	LKX2W101MESZ30
	25 × 25	0.69	0.20	LKX2W101MESA25
120	20 × 45	0.72	0.20	LKX2W121MESY45
	22 × 35	0.72	0.20	LKX2W121MESZ35
	25 × 30	0.72	0.20	LKX2W121MESA30
150	22 × 45	0.79	0.20	LKX2W151MESZ45
	25 × 35	0.79	0.20	LKX2W151MESA35
	30 × 25	0.79	0.20	LKX2W151MESB25
180	22 × 50	0.87	0.20	LKX2W181MESZ50
	25 × 40	0.87	0.20	LKX2W181MESA40
	30 × 30	0.87	0.20	LKX2W181MESB30
	35 × 25	0.87	0.20	LKX2W181MESC25
220	25 × 45	1.05	0.20	LKX2W221MESA45
	30 × 35	1.05	0.20	LKX2W221MESB35
270	30 × 40	1.23	0.20	LKX2W271MESB40
	35 × 30	1.23	0.20	LKX2W271MESC30
330	30 × 45	1.38	0.20	LKX2W331MESB45
	35 × 35	1.38	0.20	LKX2W331MESC35
390	35 × 40	1.61	0.20	LKX2W391MESC40
470	35 × 45	1.78	0.20	LKX2W471MESC45
560	35 × 50	1.99	0.20	LKX2W561MESC50

Rated ripple current (Arms) at 105°C 120Hz

CAT.8100N

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