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August 2, 2013		1/8

1. Article

Across-The-Line Capacitor, LE-MX Series.
(National safety standard approved series)
(Correspondence product of RoHS Restriction)

2. Approved standard (National Safety Standard)

Remarks: In case of application to National Safety Standard, please use type designation such as LEOOO.

UL

Specification: UL 60384-14

File No : E47474

Types : LE Series (LE104-MX~LE225-MX) (China and Sri Lanka Factory Products)

Rated voltage: AC310V

c-UL

Specification :CSA -E60384-14

File No : E47474

Types : LE Series (LE104-MX~LE225-MX) (China and Sri Lanka Factory Products)

Rated voltage: AC310V

ENEC 14 SEMKO

*****CENELEC ENEC Agreement License

Specification: IEC60384-14

Ref.No.: SE/0142-1 ENEC 14 SEMKO

Types: LE Series(LE104·MX~LE225·MX) (China and Sri Lanka Factory Products)

Rated voltage: AC310V

*TheENEC Mark is the European conformity mark for electrotechnical products commonly agreed among the national certification bodies of European states. The ENEC Marks stands for conformity with applicable European safety standards (EN).

The design of Enec Mark shows in the right figure.14 is the meaning of identification number of SEMKO.

KC

Specification: K60384-1/K60384-14

Types/File No/Grade/etc:

LE104-MX~LE334-MX (X2)/ HU03005-8030B(China Factory Products)

LE334-MX~LE105-MX (X2)/ HU03005-8028B(China Factory Products)

LE105-MX~LE225-MX (X2)/ HU03005-8029B(China Factory Products)

LE104-MX~LE334-MX (X2)/ HU03019-10003A(SriLanka Factory Products)

LE474-MX~LE105-MX (X2)/ HU03019-10002A(Sri Lanka Factory Products)

Rated voltage: AC310V

CQC

Specification : GB/T14472-1998 Cert No.; CQC07001020113

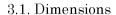
Types ;LE103-MX-LE225-MX (X2)(China Factory Products)
Types ;LE104-MX-LE105-MX (X2)(SriLanka Factory Products)

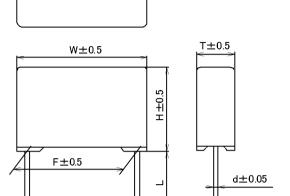
Rated voltage: AC310V

APPD.	CHK.	DESIGN	TRACE	OKAYA ELECTRIC
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3. Shape, Dimensions & Marking





				ш—	_				
Model	W	Н	Т	F	d	I	ead wi	re lengt	h
Model		П	1	Г	u	None	L	С	C3.5
LE104-MX-()	17.0	11.0	5.0	15.0	0.6				
LE154-MX-()	17.0	12.0	6.0	15.0	0.6				
LE224-MX-()	17.0	14.0	6.5	15.0	0.6				
LE334·MX·()	17.5	16.5	7.5	15.0	0.6	150	20.0	4 5	2 5
LE474 ·MX · ()	25.5	16.5	7.0	22.5	0.6	15.0	30.0 min.	$\begin{array}{ c c } & 4.5 \\ & \pm 0.5 \end{array}$	$\begin{array}{ c c } 3.5 \\ \pm 0.5 \end{array}$
LE684 ·MX·()	25.5	18.0	8.5	22.5	0.6	mın.	111111.	-0.0	-0.5
LE105-MX-()	25.5	21.0	10.0	22.5	0.6				
LE155 ·MX-()	30.5	22.5	13.0	27.5	0.8				
LE225 MX-()	30.5	25.5	15.5	27.5	0.8				

3.2. Marking

a) LE104 - MX - ()

$$\sim$$
 LE474 - MX - ()





Unit: mm

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4. Rating (Ambient Temperature 20°C)

4.1 Rated Voltage : 310Vac 50/60Hz (UL / c-UL 250Vac)

4.2 Nominal capacitance : Refer to table 1

4.3 Tolerance of capacitance : $\pm 10\%$

4.4 Dissipation factor : C≤1.0μF 0.003 max. at 10kHz

 $C > 1.0 \mu F$ 0.002 max. at 1kHz

4.5 Test voltage

Between terminals : 1000Vac 50/60Hz 60sec

 $1870 \mathrm{Vdc}\ 60 \mathrm{sec}$

Both terminals to case :2100Vac 50/60Hz 60sec

4.6 Insulation resistance

Between terminals : C≤0.33μF Min.15000 MΩ at 100Vdc

 $C > 0.33 \mu F$ Min.5000 ΩF at 100Vdc

Both terminals to body : Min.100000 MΩ at 100Vdc

4.7 Operating temperature : 55∼+110°C

table-1

Model	Nominal	Rated Current	Resonance frequency
Model	Capacitance	(at 310Vac 60Hz)	(Reference data)
LE104-MX-()	$0.10~\mu\mathrm{F}$	11.7 mA	3.3 MHz
LE154-MX-()	$0.15~\mu\mathrm{F}$	17.5 mA	2.7 MHz
LE224 ·MX·()	$0.22~\mu\mathrm{F}$	25.7 mA	$2.2~\mathrm{MHz}$
LE334-MX-()	$0.33~\mu\mathrm{F}$	38.6 mA	1.8 MHz
LE474-MX-()	$0.47~\mu\mathrm{F}$	54.9 mA	$1.5\mathrm{MHz}$
LE684-MX-()	$0.68~\mu\mathrm{F}$	79.5 mA	1.3 MHz
LE105-MX-()	$1.00~\mu\mathrm{F}$	116.9 mA	1.1 MHz
LE155-MX-()	$1.50~\mu\mathrm{F}$	175.3 mA	820 kHz
LE225-MX-()	$2.20~\mu\mathrm{F}$	257.1 mA	680 kHz

Remarks) The rated voltage indicates the maximum use of circuit voltage, and the rated current is the reference value at 310Vac 60Hz. The resonance frequency that is shown in the table 1 is the reference value.

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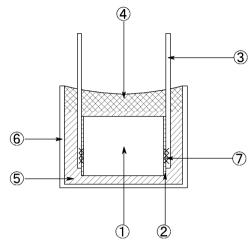
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				4/
5 P	erformance			
No	Application	ı item	Performance	Test method
			T CTTCTTTCTTCC	Ref. JIS C 5101-14 4.2.1
1	Voltage with: Between ter		No Defect	1000Vac 50/60Hz 60sec. 1870Vdc 60 sec.
	Terminals t	o case	No Defect	2100Vac 50/60Hz 60sec.
0	Insulation re between ter		C≦0.33μF: 15000MΩ min. C>0.33μF: 5000ΩF min.	Ref. JIS C 5101-14 4.2.5 Measured at 100Vdc 1 min.
2	Terminals to	body	100000 MΩ min.	Ref. ЛS C 5101-14 4.2.5 Measured at 100Vdc 1 min.
3	Capacitance		Shall be within the tolerance	Ref. ЛS C 5101-14 4.2.2 1kHz, max. 5Vrms
4	Dissipation f	actor	C≦1.0μF: 0.003 max. at 10kHz C>1.0μF 0.002 max. at 1kHz	Ref. JIS C 5101-14 4.2.3
5	Tobusticss of	Tensile	No wire breakage and no damage of capacitor.	Ref. JIS C 5101-14 4.3 Lead Dia.: above 0.5mm but below
	cilimianons	Bending	*	0.8mm.(Tensile 10N, Bending 5N)
			No open and short circuit occurred.	Ref. JIS C 5101-14 4.7
6	Vibration		Stable condition keep unchanged. Comply to condition 1~4 after the	Vibration frequency $10 \sim 55$ Hz
				Amplitude 1.5mm add X,Y,Z directions for 2hrs per direction.
			test.	Ref. JIS C 5101-1 4.15
			Coldon loven shall seven 000/	Rosin density 25%,
		1-114	Solder layer shall cover 90%	I KOSIN GENSHV ZƏ%.
_	Coldon obilita	_		
7	Solder ability	y	along the circumference of lead	dipping duration 2 ± 0.5 sec.
7	Solder ability	у		dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
7	Solder ability	y	along the circumference of lead	dipping duration 2 ± 0.5 sec.
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
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7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5)
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5) at temp. 245°C.
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. ·Pb free solder (Sn96.5Ag3Cu0.5) at temp. 245°C.
7	Solder ability	y	along the circumference of lead	dipping duration 2±0.5sec. •Pb free solder (Sn96.5Ag3Cu0.5) at temp. 245°C.

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No	Application item	Performance	Test method
		Appearance: No abnormality	Ref. JIS C 5101-14 4.4 Use 1.0mm thickness glass epoxy board as a holder. Solder temp.
8	Resistance to soldering heat	Voltage withstand: To satisfy item No.1	270°C, dipping duration 5 sec. left for 5 sec. at room temp. after
		Cap. ratio: Within ±5% of initial value.	dipping and again dip in solder for 5 sec.
		Appearance: No abnormality	
		Cap. ratio:	Ref. JIS C 60068-2-45
9	Resistance to solvent	Within ±1% of initial value. Dissipation Factor.	Use I.P.A or equivalent.
		Dissipation Factor. C≦1.0µF: 0.003 max. at 10kHz	Ose 1.1.11 of equivalent.
		C>1.0µF 0.002 max. at 1kHz	
	Posistanes to	Cap. ratio at -55°C:	Ref. ЛS C 5101-14 11.4
10	Resistance to lower category temp.	Within 0/+5% of initial value 20°C	(Characteristic at temp55°C)
	Resistance to dry heat.	Between terminals: min. 100 MΩ	D-6 HC C 5101 14 11 9
11	Insulation resistance	Both terminals to case: min. 10000MΩ	Ref. JIS C 5101-14 11.2 (Characteristic at temp. +110°C)
	Cap. ratio at +110℃	Within –5 / 0% of initial value 20°C	Characiensuc at temp. #110 C /
	Sap. radio at 1110 C	Appearance: No abnormality	
		Voltage withstand:	
	Rapid change	To satisfy item No.1	Ref. JIS C 5101-14 4.6
		Insulation resistance:	Temperature -55°C for 60 min.
12		To satisfy item No.2	and +110°C for 60min. as 1 cycle
14	of temperature.	Cap. ratio:	and it shall be repeated for 100
		Within ±5% of initial value.	cycles. (The step of normal temp. is
		Dissipation factor:	not performed.)
		C≦1.0μF: 0.003 max. at 10kHz C>1.0μF 0.002 max. at 1kHz	
		Appearance: No abnormality	
		Voltage withstand:	To be immersed in the bath, one
		To satisfy item No.1	a clean water at temp. 65°C and the other saturated salt water bath
		Insulation resistance: To satisfy item No.2	at 0°C for 15 min. as 1cycle, and to
13	Immersion cycle	Cap. ratio:	be repeated for 2 cycles.
		Within $\pm 5\%$ of initial value.	The capacitor shall be washed
		Dissipation factor:	in running water and let alone
		$1 + C \le 1 \text{ Ook?} \cap OO2 \text{ more of } 1 \cap \Box \Box \Box \Box$	for 2 to 24 hrs.
		C≤1.0μF: 0.003 max. at 10kHz C>1.0μF 0.002 max. at 1kHz	

No			
No			6/
No			
	Application item	Performance	Test method
14	Damp heat (Steady state)	Appearance: No abnormality Voltage withstand: To satisfy item No.1 Insulation resistance: At least 1/2 of item No.2 Cap. ratio:	Ref. JIS C 5101-14 4.12 Temperature 60°C and relative
	(a coccety	Within ±8% of initial value. Dissipation factor: C≤1.0μF: 0.011 max. at 10kHz C>1.0μF 0.007 max. at 1kHz	humidity 90-95% for 500 hrs.
15	Damp heat cycle	Appearance: No abnormality Voltage withstand: To satisfy item No.1 Insulation resistance: To satisfy item No.2 Cap. ratio: Within ±5% of initial value. Dissipation factor: C≤1.0μF: 0.011 max. at 10kHz C>1.0μF 0.007 max. at 1kHz	Ref. ЛS C 5101-14 4.11
16	Damp heat loading	Appearance: No abnormality Insulation resistance:	Temp. 40°C and relative humidity 90·95%, and DC voltage 2 times of the nominal rated voltage shall be applied for 1000 hrs.
17	Endurance	Appearance: No abnormality Insulation resistance: At least 1/2 of item No.2 Cap. ratio: Within ±10% of initial value. Dissipation factor: C≤1.0μF: 0.011 max. at 10kHz C>1.0μF 0.007 max. at 1kHz	Ref. JIS C 5101·14 4.14 Temp. 110°C, 388Vac shall be applied continuously, only 0.1 sec set up to 1000Vac per each hour. The test shall be performed for 1000 hrs.
18	Passive flammability	Reduce inflammation within regulation time.	Ref. ЛS C 5101-14 4.17
			OKAYA ELECTRIC INDUSTRIES CO., LTD.

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6. Structure drawing



All components be RoHS restriction correspondence articles.

No.	Article	Materials	Flame resistance
1	Capacitor element	Metallized PP film capacitor	
2	Soldering weld (Metalicon)	Pb free correspondence	
3	Lead wire	Pb free correspondence (plated copper clad steel wire)	
4	Filler resin	Polyurethane resin	UL94 V-0 approved
5	Filler resin	Polyurethane resin	UL94 V-2 correspond
6	Modified Case	Polybutylene terephthalate	UL94 V·0 approved
7	Soldering or weld	Soldering :Pb free correspondence	

Remarks: The above materials may be changed in the range which guarantees the specified contents of specifications and other related standards.

The above materials are described as existing chemical materials based on 'Inspection and manufacturing control of chemical materials of law'.

The above materials have not included ozone-depleting substances.

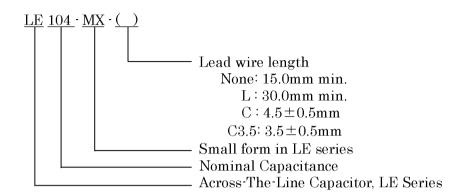
7. Marking

- a) Part Number
- b) Rated Voltage
- c) Symbol of AC Voltage
- d) Nominal Capacitance
- e) Manufacturing Lot Symbol
- f) Trade Mark of Okaya Electric Industries Co., Ltd.
- g) Symbol of Safety Standard Approvals

OKAYA ELECTRIC	
INDUSTRIES CO., LTI	Э.

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8. Ordering Information



9. Reference Standard

IS C 5101-1 Fixed Capacitors For Electronic Equipment Vol. 1
IS C 5101-14 Fixed Capacitors For Electronic Equipment Vol. 14
IS C 60068-2-45 Environmental Testing Procedure.

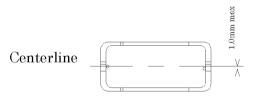
10. Terms of use

Please use this product with reference to the following contents in order to avoid from accident.

- 「EIAJ RCR-2350B Guideline of notabilia for fixed plastic film capacitors for use in electronic equipment」 published by Japan Electronic and Information Technology Industries Association.
- [Attention on use of the noise suppression capacitor] as per attached.

11.Others

- · Bias of lead wires is the following.
 - Manufacturer: China Factory. Sri Lanka factory.



• This specification is applied from delivery start date of the change marking product.

Attention on use of the noise suppression capacitor.

Apr. 6, 2010 Okaya Electric Ind. Co., Ltd. Noise Technical Dep.Capacitor Technical Group

The noise suppression capacitor is using the metallized plastic film mainly for the dielectric. Therefore, the insulation, voltage-withstand, heat resistance, the frequency characteristic, etc. are excellent, and it also has high reliability and safety.

However, it sometimes results in a serious accident with not designing, after fully knowing the characteristics depending on a use. Since these data explain the attention on use on a design etc. concretely, it is surely individual before use. Please use correctly after often reading the technical data, delivery specifications and these data. Please save in the place seen always after reading.

1. Failure mode.

Generally, a metallized film capacitor is an action which carries out natural recovery of the insulated destructive part, when there is a self-recovery action, high surge voltage is added while in use and the dielectric causes insulated destruction partially. However, it is not in recovering by all cases. Especially, like the AC power supply, internal current may flow excessively at the time of self-recovery, the dielectric may be damaged, and insulation may not be recovered in a low impedance circuit.

2. Capacitor for AC power supplies.

The metallized plastic film capacitor has many strong points, and the use is also very wide in range. However, it can not be said that we may use it for all cases. In the case of a high frequency circuit etc., it appears as a result which is visible which generate heat immediately at the time of mistaking selection of a capacitor. However, the measure against surge voltage and the measure against corona are required for electromagnetic interference suppression of an AC power supply. It is also necessary to fully check reliability and safety to being exposed to the periods and these unfavorable conditions beyond the life of apparatus.

Moreover, a thunder stroke etc. is sometimes occurred. It is necessary to check such safety when receives these unusually. The recognition as "a special use" is required for the capacitor used for an AC power supply. A good idea for you is to use an overseas safety standard product as a standard of your selection.

3. Notes on use.

3.1 On circuitry.

- Please use it after checking use environment and fixing environment within the limits of the rated performance specified on the delivery specifications of the capacitor. (Please check especially the following clause)
- The temperature range to be used is in rating, including the condition for use and preservation. A capacitor carries out self-generation of heat when the power supply especially with high frequency. Moreover, when exothermic parts are in near, be careful also of overheating by radiant heat.

- Keep in mind that dielectric deteriorates by moisture absorption when more than 85%RH or the continuation use under high humidity, such as dews.
- The voltage of the circuit to be used, such as AC, DC and a high frequency etc. is in rating. Please check that there is no influence in unusual self-generation of heat (self-generation of heat changes due to the voltage waveform or circumference temperature, please follow below 5deg, as a guide)
- If poor contact and the case of being unstable are in connection of a power supply system, a high voltage by resonance of sparks electric discharge may occur, please check.
- To satisfy characteristics, some capacitor's series are impregnated with oil.

 It may cause leakage oil from capacitor depending on usage environment.
 - Quality of the capacitor is not affected by the leakage oil. When there is connector and/or relay near the capacitor, leakage oil may cause bad connection.
- As for special environment, as follows, please contact.
 - a) The circuit where the huge surge voltage in repeating, rapid electric charge and discharge is repeated.
 - b) The use which requires vibration and a shock continuously.
 - c) Water, salt water, oil, etc. are in use.
 - d) The use in plastics, such as chlorine, ammonia, and hydrogen sulfide, and the gas environment where metal is invaded.
 - e) The use in the environment exposed to ozone, an ultraviolet ray, radiation, etc.

3.2 Attachment to apparatus.

- At the time of attachment, please do not make it damaged by the machine and the tool (solder is to be included), or do not add pressure from the exterior. (even when there are not degradation and change in appearance visually, inside may be damaged)
- When tensile strength and twist is added to the lead, please do not fix (with screw, soldering etc.). A slack etc. may be happened in progress of time.
- Please do not apply the temperature more than regulation at the time of soldering. Heat degradation of the parts may be happened especially under the influence of pre-heating.
- When you apply solder to the land of a printed wiring board, please take sufficient solder portion. If
 inadequate, in a vibration in use and temperature change, a soldering part may deteriorate and it
 may become poor connection.
- Please do not carry out removing and re-using the product which already attached in the printed wiring board and was soldered to it at once. A slack in the lead wire under the influence of heat is dangerous when removing.
- When the capacitor is warmed, please do not apply external force.
- The washing process should carry out with the following cautions.
 - a. Although the material strong against comparatively various washing is used, it may soften or may expand in washing of 60 degrees C or above. Please perform the coating after your check.
 - b. There is also a possibility that a display will disappear, in ultrasonic washing or shower washing depending on conditions, please carry out after checking conditions.
 - c. When the display surface is rubbed or mechanical power is applied during washing, the display

- may disappear, please terminate this action.
- d. If the display surface is rubbed or mechanical power is applied immediately after washing and before detergent dries, the display may disappear, please terminate this action.
- e. Please check before use an acetone, xylene, and a halogen system solvent.
- When you fix the parts with adhesives etc., please use it after confirm not giving distortion to the capacitor after the adhesives' hardening.
- When you use a solvent type with adhesives etc., please perform after your check there is no damage on the coating (dissolution, expand) by the solvent.
- Please do not impose power strong against the main part of the capacitor after fixing the capacitor to a printed wiring board or a terminal board. A slack may be happened in the lead wire due to this power, or the coating may be damaged.

3.3 Under use of apparatus and equipment

- If the terminal of a capacitor is touched, an electric shock will be happened during the flow of current. Moreover, if electricity is stored in the capacitor and even after turning off the switch of a power supply describes, an electric shock may be happened. Please touch after applying the resistance for electric discharge to the terminal of a capacitor and fully discharging, when touching the terminal of a capacitor.
- Please do not allow short-circuit between the terminals of a capacitor with an electric conduction object during the flow of current. A capacitor may deteriorate by rapid charge and discharge of electric.
- Please follow notes of clause 3.1 in this document.
- When receive a thunderstroke within a 500m radius of having used apparatus and equipment, please turn off the switch immediately and pull out the plug from the wall socket etc.

3.4 Scheduled Inspection

- Scheduled inspection should be performed after turn off the switch of apparatus and equipment, and after discharging completely of the capacitor. An electric shock may be happened if the electric charge still remains in the capacitor
- If damage or damage by flame, are seen in the coating side of a capacitor, please remove a capacitor and discuss with us.

3.5 In an emergency

- When emitting smoke, ignition, a nasty smell, unusual sound, etc. during use of apparatus and equipment, turn off the switch of apparatus and equipment immediately. Please pull out the plug from the wall socket etc.
- Place apparatus and equipment to the location with good ventilation, does not have combustibles, and please take the measure of required smoke eliminating and fire extinguishing.

3.6 Storage and conditions (before use)

- If it is kept in atmosphere with direct rays, dust, a rapid temperature change, and corrosive gas, and

places, with heat and high humidity, degradation of the characteristic may take place.

- Please use it after checking the characteristic and soldering nature of those left for more than one year.
- Please do not apply too much shock and external force to a capacitor. (even when there are not degradation and change in appearance visually, inside may be damaged)
- Be aware of clause 3.1. c, d, and e in this document.

3.7 Wastage.

- A capacitor is classified into industrial waste. Please discard by the disposal plant and processing contractor who received the approval specified by the government ordinance.
- Incineration of a capacitor may generate detrimental gas.
- If a capacitor is exposed outdoors to a rainstorm, underground, groundwater, and river contamination may be caused, please do not carry out.
- 3.8 The matter without publication is based on the "Guideline of notabilia for fixed plastic film capacitors for use in electronic equipment" (EIAJ RCR-2350B) published by Japan Electronics and Information Technology Industries Association.

* Client consultation: Okaya Electric Ind. Co., Ltd.

Noise Technical Dep. Capacitor Technical Group

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