MHT Series

Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
MHT2G10M-0813	MHT400V10 μ F	Φ8*13L	4000 hours

1. Operating Temp. Range

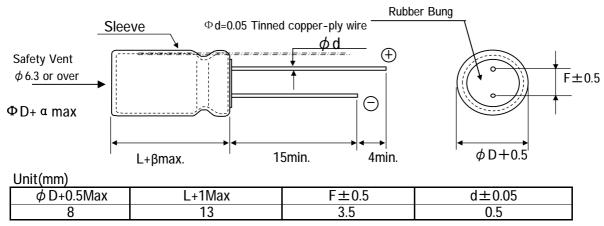
-25°C ~ + 105°C

2. Electrical Characteristics See Table 1.

	300
Table	1】

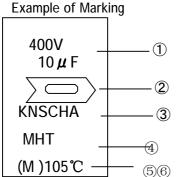
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (µF)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz	Leakage Current 5min. 20°C (µA)max	Permissible Ripple Current (mArms)max 105°C100KHz
400	450	10	-20~+20	0.20	9 5	145

3. Dimensions



4. Marking

Following items are printed with white color on coffee color sleeve



- ① Rated voltage & Nominal Capacitance
- 2 Polarity (negative)
- ③ Trade Mark
- 4 series
- (5) Symbol of Capacitance Tolerance (M)
- 6 Max Operating Temp.

5.ML	LTIPLIER FOR RIPPLE CURREN	Т
1).	Frequency Coefficient	

·•							
	Freq.(Hz) Cap(μF)	60 (50)	120	300	1K	10K	100K
	0.1-47	0.55	0.65	0.70	0.75	0.85	1.00
	68-680	0.65	0.75	0.80	0.85	0.90	1.00
	1000-15000	0.70	0.80	0.85	0.90	0.95	1.00
)	Tomporature Coefficient						

2. Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00

6. Characteristics

No.	Item	Performance	Test Method
1	Leakage Current	I= 95.0 μA (I=0.02CV+15 μ A) I= Max Leakage Current C=Ctatic Capacitor: V=Rated Voltage	Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 5minutes
2	Static Capacitance	8 \sim 12 μ F	Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.20 and Under	Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Leakage Current \leq the value specified in Table 1Cap. Change $\leq \pm 20\%$ of initial valueDissipation Factor $\leq 200\%$ of value specified in TableAppearanceNo remarkable abnormality	Test Temp. : 105±2°C Applied voltage: Rated voltage Test Time :4,000 hours +72, -0 hours
5	High Temp. no load Charac- teristics	Leakage Current \leq the value specified in Table 1Cap. Change $\leq \pm 20\%$ of initial valueDissipation Factor $\leq 200\%$ of value specified in TableAppearanceNo remarkable abnormality	Test Temp. : 105±2°C No voltage applied Test Time :1000 hours +24, -0 hurs
6	Terminal Strength	Tensile Strength45N {4.5kg}Bending Strength25N {2.5kg}	Keeping time Tensile 1~5sec Bending 30±5sec
7	Impedance Ratio	W V 400 Z-25°C/Z+20°C 8 Z-40°C/Z+20°C -	
8	Temperature Charac - teristics	StageItemPerformance2,3Impedance Ratioless than the value mentior5Cap, Change≤±25% against value in stAfter the capacitor is held at tempereture of each s and reaches temperature stability, measure perform	age 4 2 $-25\pm3;$ 3 $-25\pm3;$ 4 20 ± 2 itage 5 105 ± 2
9	Surge Voltage	Item Perforemance Leakage Current ≤ the initial specified value of the construction of the	fore test ue y Specified in 2

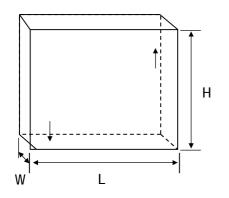
No,KNS-20200319004 (2/5)

6-2. Characteristics

No.	Item	Performance	Test Method
10	Vibration Resistance	CapacitanceStability requiredCap. Change≤±5% of the initial specifiAppearanceNo remarkable abnormaliFrequency : 10~55Hz/1min. Width of vibratiY and Z directions, each for 2 hours (Total)	ty tion, 1.5mm Direction and duration X,
11	Solderbility	3/4 area of surrounding directions of surface should be covered with new solder.	Solder: Sn-Ag, Sn-Cu Type Soldering Temp : 240±5°C Dipping degree : 2~2.5mm Flux : Ethanol solution (JIS K8101) or Isopropylalchol (JIS K8839) solution of Rosin (JIS K5902)
12	Resistance to Soldering	Leakage Current \leq Initial specified valueCap. Change $\leq \pm 10\%$ of initial valueDissipation Factor \leq Initial specified in valueAppearanceNo remarkable abnormality	Soldering Temp. 280±5℃ Soldering Time . 10±1sec.
13	Resistance to Humidity	Leakage Current≦ Initial specified valueCap. Change≦±15% of initial valueDissipation Factor≦ Initial spesified valueAppearanceNo remarkable abnormality	Test Temp. : $40\pm2^{\circ}C$ Humidity 90~95% Test Time : 500 \pm 8 hours After the above condition,restored to normal temp, and then measured.
14	Perssure valve moment charact- erstics	There must not be thing ignition, scattering the resolution that that case works safely	Dcmethod: impress the reverse voltage and of 1A, I cancel an electric current.

7 Packing method

Packaging shape, size, quantity



Component	Quanity
size	per
8*13	16000pcs.

- Related Standards JIS C 5141 8
- Marking on packing box 9
 - 1 Item name
 - Series name

 - 3 Rated Voltage
 4 Nominal Static Capacitance
 5 Case size

 - 6 Lot No.
 - (7) Quantity

10 Soldeing

10-1 Soldering by soldering iron

Temperature of iron top : $270 \sim 350^{\circ}$ C Operating time : within 3 sec.

10-2 Flow soldering. Preheat : PCB surface temperature 120°C±5°C Solder Temp : 260°C±5°C Solder Dipping Temp. : 2~4sec.

11 Cleaning of PC boad after soldering

Using follwing solvents is possible but make sure followingcondition Solvent IPA or Alcoholic agent like Pinealpha ST-100S. Cleanthrough 750H, 750L

IPA or Alcoholic agent like Pinealpha ST-100S, Cleanthrough 750H, 750L, 710M, 750K, or Technocare FRW-14~17

1 Cleaning should be made by ultrasonic within 5min, at the temperature less then 60°C.

(2) Control of pollution is necessary (conductivity,pH, specific gravity, water volume)

③ Please do not keep near cleaning agent. Please do not store in air-tight container. Please let it dry by hot air at the temperature less than maximum operating temp.

12 The situation of using

Please do not use a condenser in the next use environment.

- ① One circumference environment(weatherability) condition.
- (a) Direct water, salt water and environment oil works or become a dew condensation state.
- (b) Environment full of harmful gas (a hydrogen chloride, sulfurous acid. nitrous acid hydrochloric acid, ammonia).
- (c) Ozone, infrared rays and the environment where radioactive rays are done collation of
- (2) Vibration shock condition is extreme environment more than rule ranges of delivery specifications.

13 A country of origin

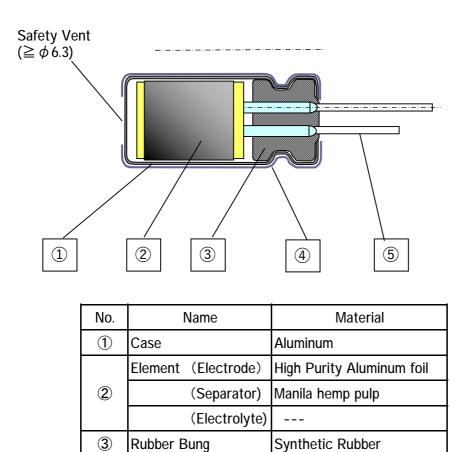
A country of origin of an MHT series alminum electrolysis condenser of specifications: China

14 Effective life for storage

Storage conditions:

- ① Temperature range must be between 5-35°C
- 2 Relative humidity must be less than 75%
- ③ Must be stored indoor
- (4) Must be free from water, oil or salt water
- (5) Must be free from toxic gasses (hydrogen sulfide, sulfurous acid, chlorine, ammonium, etc.)
- ⑥ Must be free from ozone, ultraviolet rays or any other radiation
- ⑦ Must be kept in capacitor original package

Aluminum Electrolytic Capacitor MHT Series Structure



 ⑤
 Lead Wire
 Tin plated Steel Wire

PET

Controls of ozone layer destructive chemical materials

(4)

Sleeve

Regulated materials : CFCs, Halon, Carbon Tetrachloride, 1.1.1-Trichloroethane The products and parts do not include the above materials The products and parts are not used the above materials on process.

The products and parts are not used PBBOs (Poly Bromo Bi-phenyl Oxides).

All materials are mentioned as existing chemical material in the "Law of examine and control of Production of Chemical Material"

The products are not listed in Appendix 1 of Export Trade Rule and Regulation

A condenser of this series supports RoHS regulation.

X-ON Electronics

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Click to view products by KNSCHA manufacturer:

Other Similar products are found below :

NRELS102M35V16X16C.140LLF ESRG160ETC100MD07D 227RZS050M 335CKR250M 476CKH100MSA 477CKR100M 107CKR010M 107CKH063MSA RJH-25V222MI9# RJH-35V221MG5# B43827A1106M8 RJH-50V221MH6# EKYA500ELL470MF11D B41022A5686M6 ESRG250ELL101MH09D EKMA160EC3101MF07D RJB-10V471MG3# ESMG160ETD221MF11D EKZH160ETD152MJ20S RJH-35V122MJ6# EGXF630ELL621ML20S RBD-25V100KE3#N EKMA350ELL100ME07D ESMG160ETD101ME11D ELXY100ETD102MJ20S EGXF500ELL561ML15S EKMG350ETD471MJ16S 35YXA330MEFC10X12.5 RXW471M1ESA-0815 ELXZ630ELL221MJ25S ERR1HM1R0D110T LPE681M30060FVA LPL471M22030FVA HFE221M25030FVA LKMD1401H221MF B41888G6108M000 EKMA160ETD470MF07D UHW1J102MHD6 EKMG500ETD221MJC5S LKMK2502W101MF LKMD1401H181MF LKMI2502G820MF LKMJ2001J122MF LKML2501C472MF LKMJ4002C681MF 450MXH330MEFCSN25X45 450MXK330MA2RFC22X50 63ZLH560MEFCG412.5X30 ELH2DM331025KT ELH2DM471P30KT