MHT Series

Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
6.8UF400V87EC0241	MHT400V6.8 µ F	Ф 8*9L	2000 hours

1. Operating Temp. Range

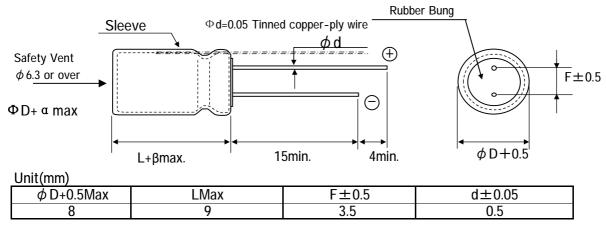
-25°C ~ + 105°C

2. Electrical Characteristics See Table 1.

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[Table	1】

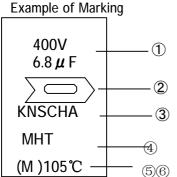
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (µ F)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz	Leakage Current 5min. 20°C (µA)max	Permissible Ripple Current (mArms)max 105°C100KHz
400	460	6.8	-20~+20	0.20	69.4	118

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	JLTIPLIER FOR I	RIPPLE CURRENT
1).	Frequency Coef	ficient

<u>.</u>							
	Freq.(Hz) Cap(μF)	60 (50)	120	300	1K	10K	100K
	0.1-47	0.55	0.65	0.7	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
2.	Temperature Coeff	icient					
	Ambient	40	60	70	85	105	

6. Characteristics

No.	Item	Performance	Test Method
1	Leakage Current	I= 69.4 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	5.44 \sim 8.16 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 :2,000 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 stand reaches temperature stability, measure perform	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
9	Surge Voltage	Item Perforemance Leakage Current ≤ the initial specified value Cap, Change ≤ ±15% against value be Dissipation Factor ≤ the initial specified value Appearance No remakable abnormalit Test Temp. 15~35°C Test volt. Surge Volt.S Voltage apply. 1,000times of chage for 30±5sec, und and discharge for 5min30sec. 1	efore test ue ty Specified in 2

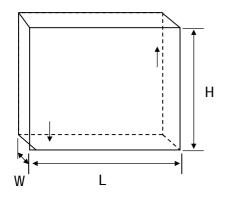
No,KNS-20210407004 (2/5)

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 vibratY 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°C 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. : $40 \pm 2^{\circ}$ C Humidity $90 \sim 95\%$ Test Time : 500 ± 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



Quanity
per
24000pcs.

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

 - 2 Series name
 3 Rated Voltage
 4 Nominal Static Capacitance
 5 Case size

 - 6 Lot No.
 - ⑦ Quantity

10 Soldeing

10-1Soldering by soldering iron

Temperature of iron top : 270~350°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, 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

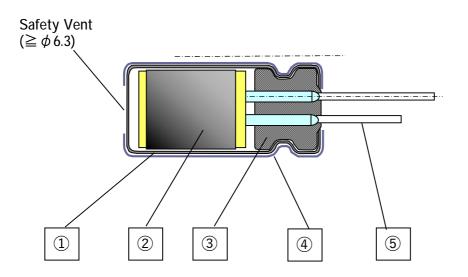
14 Effective life for storage

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

No,KNS-20210407004 (4/5)

Aluminum Electrolytic Capacitor MHT Series Structure



No.	Name	Material
1	Case	Aluminum
	Element (Electrode)	High Purity Aluminum foil
2	(Separator)	Manila hemp pulp
	(Electrolyte)	
3	Rubber Bung	Synthetic Rubber
4	Sleeve	PET
5	Lead Wire	Tin plated Steel Wire

Controls of ozone layer destructive chemical materials

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.

No,KNS-20210407004 (5/5)

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Click to view products by KNSCHA manufacturer:

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