

# SPECIFICATION

## APPROVAL SHEET



CUSTOMER:

PRODUCTS:

LM series - DC link capacitors

CATEGORY:

15μF 800Vdc

ORDERING CODE:

156K801D21101

CUSTOMER CODE:

DATE:

Dec 3<sup>rd</sup>, 2022 (Ver 0)

承認印/APPROVAL STAMP			
供方 /VENDER		客戶 /CUSTOMER	
Design	Audit		
J.D Dec.3 <sup>rd</sup> 2022	GQ.Y Dec.3 <sup>rd</sup> , 2022		

### Specification Revisions:

Revision Level	Revision Change	Date	Initials

## CABO ELECTRONICS(FOSHAN) LIMITED

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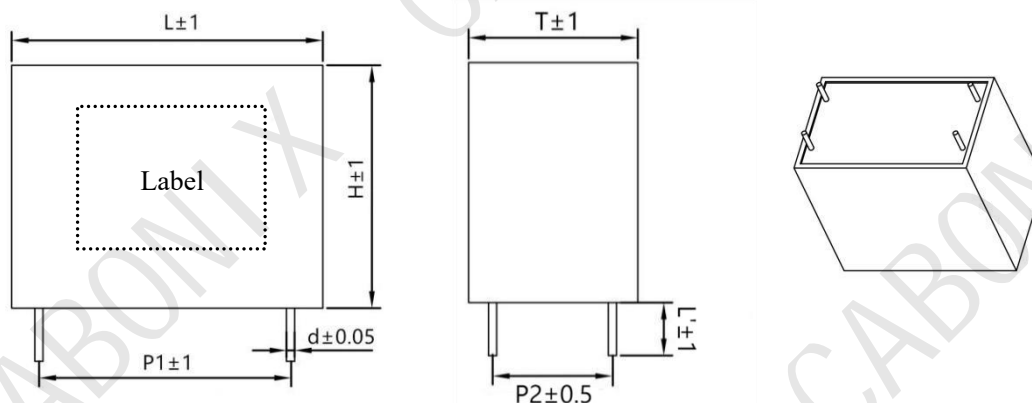
### A **Hi-Reliability** capacitor brand of China

Failure Rate ≤50FIT | 100% Tested Before Delivery



技術圖紙請勿外傳！該產品引用了多項自主技術專利，CABO 保留追究一切技術圖紙外流損失的權利。  
Confidential and invention patents are contained in CABO solution, disclosure or distribution of this specification is prohibited.

## LM series DC link Capacitor

15 $\mu$ F800Vdc Ordering code:156K801D21101

L	T	H	P1	P2	d	L'
42	20	40	37.5	10.2	1.2	4

Dimensions in mm, unspecified dimensions tolerance  $\pm$ 1mm

## 技術參數 Technical specification

Electrical Characteristics		
Capacitance( $C_n$ )		15 $\mu$ F
Capacitance tolerance		$\pm$ 10%(K)
Rated Voltage( $U_n$ )		800Vdc
Max RMS Current ( $I_{rms}$ )		10.5A @10KHz,70 $^{\circ}$ C
Peak Current ( $I_{peak}$ )		600A (dv/dt $\geq$ 40V/ $\mu$ s)
ESR		$\leq$ 7m $\Omega$ @10kHz
Dissipation Factor (Tan $\delta$ )		tg $\delta$ $\leq$ 0.0012 @1kHz
Ls		<15nH
Operating Temperature ( $T_w$ )		-40~85 $^{\circ}$ C (Hotpot $\leq$ 105 $^{\circ}$ C)*
Storage Temperature ( $T_s$ )		-40~85 $^{\circ}$ C**
Insulation Resistance ( $R_i$ )		R $\times$ C>10000s
Work life		>100,000Hours @ $U_n$ , $\leq$ 70 $^{\circ}$ C
Humidity (RH)		0-95%
Altitude		$\leq$ 3500m
Mechanical and Test Parameter		
Test voltage between terminals		1200Vdc 10s
Test voltage between terminal/case		3000Vac 60s
Shell material		Frame-retardant plastic shell
Sealing materials		Epoxy resin
Dielectric medium		Metallized polypropylene film
Failure Rate		$\leq$ 50Fit
Fire resistance		UL94 V-0

\* +85 $^{\circ}$ C to +105 $^{\circ}$ C(case): decreasing factor 1.5% per  $^{\circ}$ C for  $U_n$ (dc)

肯博電子(佛山)有限公司

**引用標準 Reference standard**

IEC60664-1:2007, IEC61071-1/2, UL94, CABO standard

**包裝與運輸 Packing and shipment**

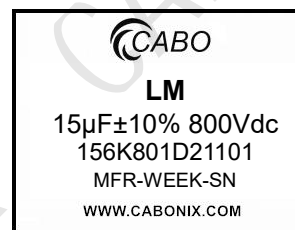
For the packing box with capacitor, any kinds of shipment are permitted.

But the sprinkle of rain or snow and mechanical damage must be avoided.

**標識 Mark**

The capacitor is marked by laser print or stamp or adhesive label,  
With following information:

1. Rated capacitance value (15 $\mu$ F)
2. Rated voltage (800Vdc)
3. Tolerance on rated capacitance (K :  $\pm 10\%$ )
4. Part number (Code for ordering 156K801D21101)
5. Trace code and serial number (MFR-WEEK-SN)

**提醒和警示 Cautions and Warnings**

- (1) The capacitor have not discharge resistors between terminals, so the energy stocked in the capacitor may be lethal, before handle capacitors please discharge through resistor, short-circuit the capacitor is not permit.
- (2) Check thickness of the connections/terminals periodically.
- (3) Do not use or store capacitors in corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In the dusty environment regular maintenance and cleaning especially of the terminals is required to avoid conductive path between phases.
- (4) All the data measured at Room Temperature (R.T. 23 $\pm 8^{\circ}$ C) unless otherwise specified.
- (5) CABO is not responsible for any damages, which are caused by the improper installation and application. Before using the capacitor in any application, please read carefully this technical data-sheet.
- (6) Specifications are subject to change without prior notice. Don't hesitate to contact us for any doubts and more detail information.