

SPECIFICATION

APPROVAL SHEET



CUSTOMER:
PRODUCTS: S series -IGBT Snubber capacitor
CATEGORY: 1 μ F 630Vdc
ORDERING CODE: 105K631D21101
CUSTOMER CODE:
DATE: Jul 12th, 2022 (Ver 0)

承認印/APPROVAL STAMP	
供方 /VENDER	客戶 /CUSTOMER
Design	Audit
J.D Jul.12 th 2022	GQ.Y Jul.12 th , 2022

Specification Revisions:

Revision Level	Revision Change	Date	Initials

CABO ELECTRONICS(FOSHAN) LIMITED

TEL: 86-757-8879 3288 FAX: 86-757-8619 7918
 info@cabonix.com www.cabonix.com

A Hi-Reliability capacitor brand of China

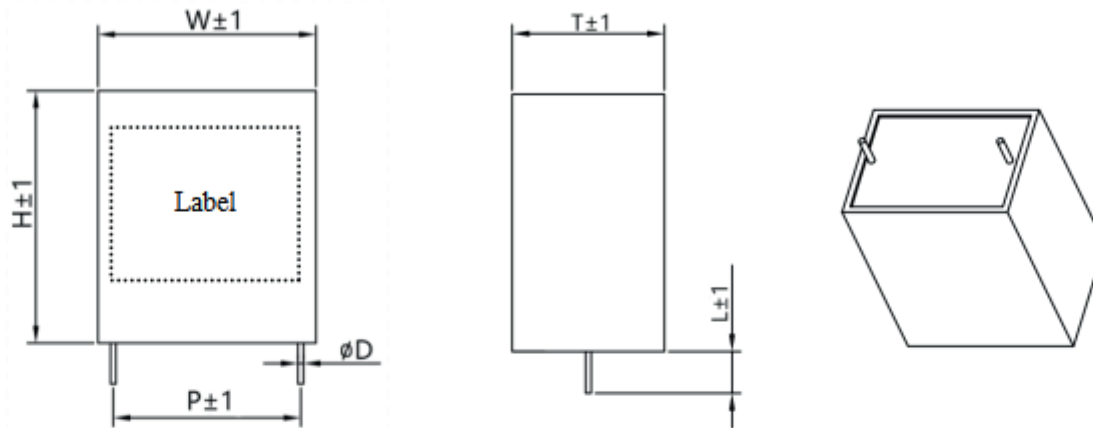
Failure Rate \leq 50FIT | 100% Tested Before Delivery



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.

S series - IGBT Snubber Capacitor

1 μ F630Vdc Ordering code:105K631D21101



W(Width)	H(Height)	T(Thickness)	P(Pitch)	D(diameter)	L(Length)
31.5	23	13.5	27.5	0.8	5.5

Dimensions in mm, unspecified dimensions tolerance ± 1 mm

技術參數 Technical specification

Electrical Characteristics	
Capacitance (C_n)	1 μ F
Capacitance tolerance	$\pm 10\%$ (K)
Rated voltage (U_n)	630Vdc
RMS current (I_{rms})	6A @10kHz, 70 $^{\circ}$ C
Pulse current (I_p)	100A $dv/dt > 100V/\mu s$
ESR	$< 35m\Omega$ @10kHz
Dissipation factor	$\tan \theta \leq 0.0008$ @1kHz
ESL	< 1 nH per mm of lead spacing
Insulation Resistance (R_i)	$R_i \times C > 30000s$
Operating Temperature (T_w)	-40~85 $^{\circ}$ C (Hotpot $\leq 105^{\circ}$ C)*
Storage temperature (T_s)	-40~85 $^{\circ}$ C**
Work life	200,000 Hrs @ $U_n, \leq 70^{\circ}$ C
Humidity (RH)	0~90%
Altitude	< 3500 m
Mechanical and test parameters	
Test voltage - terminals (U_{tt})	1008Vdc /10s
Test voltage - terminal/case (U_{tc})	3000Vac /60s
Enclosure material	Plastic shell
Sealing materials	Epoxy resin (Dry type)
Dielectric medium	Metallized PP film, self-healing
Cooling mode	Nature cooling
Fire resistance	UL 94 V-0

* +85 $^{\circ}$ C to +105 $^{\circ}$ C (Case): decreasing factor 1.2% per $^{\circ}$ C for U_n (dc)

** The storage temperature must $\leq 105^{\circ}$ C, and the work lifetime based on the storage temperature -40 $^{\circ}$ C ~ +80 $^{\circ}$ C

引用標準 Reference standard

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

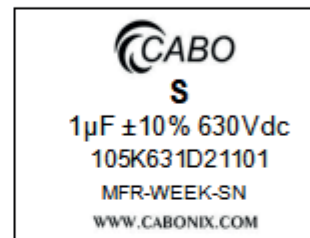
包裝與運輸 Packing and shipment

The capacitors are packed into a cardboard box, any kinds of shipment are permitted.
But the sprinkle of rain or snow and mechanical damage must be avoided.

標識 Marking

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

- 1.Rated capacitance value(1 μ F)
- 2.Rated voltage(630Vdc)
- 3.Tolerance on rated capacitance(K : \pm 10%)
- 4.Part number(Code for ordering 105K631D21101)
- 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.

