

SPECIFICATION

APPROVAL SHEET



CUSTOMER:
PRODUCTS: S series -IGBT Snubber capacitor
CATEGORY: 1μF 1600Vdc
ORDERING CODE: 105K162D21201
CUSTOMER CODE:
DATE: Jul 27th, 2022 (Ver 0)

承認印/APPROVAL STAMP			
供方 /VENDER			
Design	Audit		
XH.Q Jul.27 th , 2022	WQ.J Jul.27 th , 2022		

Specification Revisions:

Revision Level	Revision Change	Date	Initials

CABO ELECTRONICS(FOSHAN) LIMITED

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

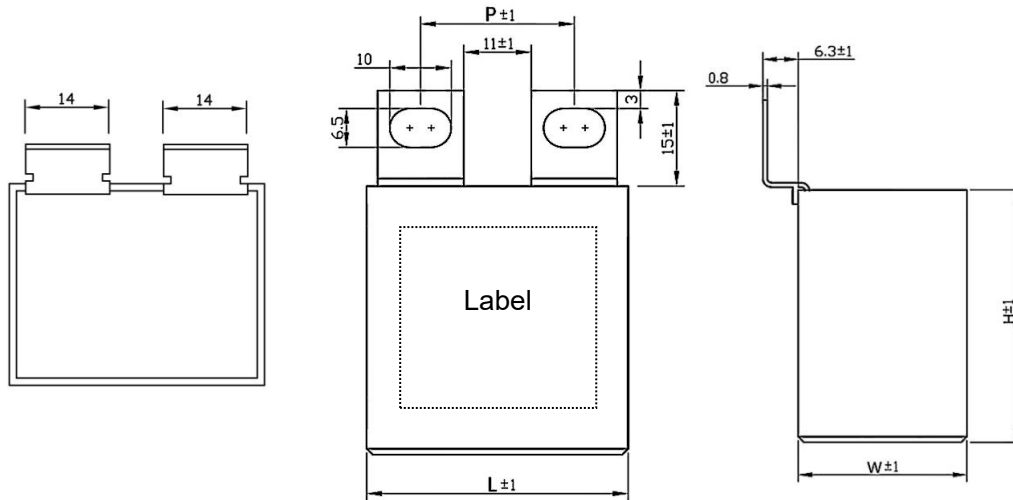
Failure Rate ≤50FIT | 100% Tested Before Delivery



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.

S series - IGBT Snubber Capacitor

1 μ F1600Vdc Ordering code:105K162D21201



L(Length)	W(Width)	H(Height)	P(Pitch)	Installing range
42	30	45	25	21-29 (M6)

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)	1600Vdc
RMS current (I _{rms})	25A
Pulse current (I _p)	1000A dv/dt>1000V/ μ s
ESR	<3.2m Ω
Dissipation factor	Tan $\theta \leq 0.0008$ @10kHz
ESL	≤ 25 nH
Insulation Resistance (R _i)	R _i x C > 5000s
Operating Temperature (T _w)	-40~+85 $^{\circ}$ C
Work life	100,000 Hrs @U _n , $\leq 70^{\circ}$ C
Humidity (RH)	0~90%
Altitude	<4000m
Protection level	P0
Mechanical and test parameters	
Test voltage - terminals (U _{tt})	2400Vdc 10s
Test voltage - terminal/case (U _{tc})	/
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

引用標準 Reference standard

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

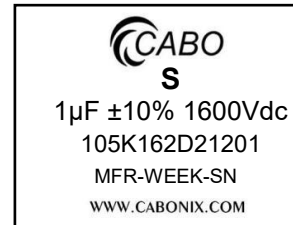
包裝與運輸 Packing and shipment

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(1600Vdc)
- 3.Tolerance on rated capacitance(K : \pm 10%)
- 4.Part number(Code for ordering 105K162D21201)
- 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.



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VER 0