

SPECIFICATION

APPROVAL SHEET

**CUSTOMER:****PRODUCTS:**

S series -IGBT Snubber capacitor

CATEGORY:0.33 μ F 1600Vdc**ORDERING CODE:**

334K162D21101

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 |
|----------------|-----------------|------|----------|
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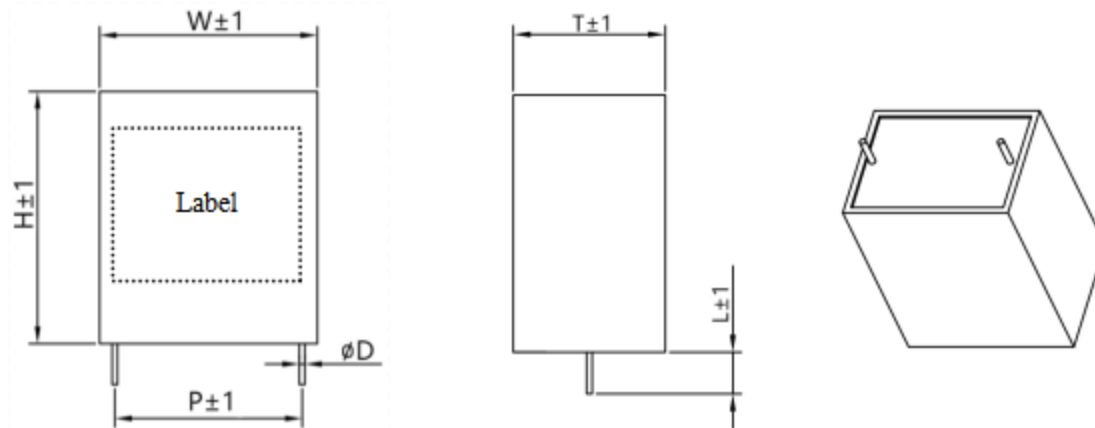
A Hi-Reliability capacitor brand of ChinaFailure Rate \leq 50FIT | 100% Tested Before Delivery

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

0.33 μ F1600Vdc Ordering code:334K162D21101



| W(Width) | H(Height) | T(Thickness) | P(Pitch) | D(diameter) | L(Length) |
|----------|-----------|--------------|----------|-------------|-----------|
| 31.5 | 21 | 11 | 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) | 0.33 μ F |
| Capacitance tolerance | $\pm 10\%$ (K) |
| Rated voltage (U_n) | 1600Vdc |
| RMS current (I_{rms}) | 3.3A @10kHz , 70 $^{\circ}$ C |
| Pulse current (I_p) | 53A $dv/dt > 160V/\mu s$ |
| ESR | $< 41.9m\Omega$ @10kHz |
| Dissipation factor | $\tan \theta \leq 0.0008$ @1kHz |
| ESL | < 1 nH per mm of lead spacing |
| Insulation Resistance (R_i) | $R_i \times C > 10000s$ |
| Operating Temperature (T_w) | -40~85 $^{\circ}$ C (Hotpot $\leq 105^{\circ}$ C)* |
| Storage temperature (T_s) | -40~85 $^{\circ}$ C** |
| Work life | 100,000 Hrs @ $U_n, \leq 70^{\circ}$ C |
| Humidity (RH) | 0~90% |
| Altitude | < 3500 m |
| Mechanical and test parameters | |
| Test voltage - terminals (U_{tt}) | 2400Vdc /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 1.5% 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.

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引用標準 Reference standard

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

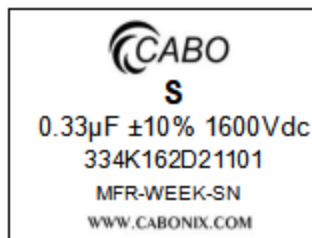
包裝與運輸 Packing and shipment

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(0.33 μ F)
- 2.Rated voltage(1600Vdc)
- 3.Tolerance on rated capacitance(K : \pm 10%)
- 4.Part number(Code for ordering 334K162D21101)
- 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.