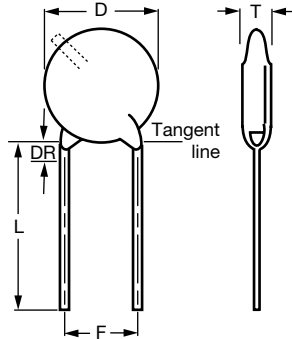


Vishay Component (Huizhou) Co. Ltd. Disc Capacitor Specification


FEATURES

- High capacitance
- High stability
- Compliant to RoHS directive 2002/95/EC


**RoHS
COMPLIANT**
APPLICATIONS

- Bypassing
- Coupling
- Resonant circuit

DESIGN

Encapsulation is made of phenolic resin. Connection leads are made of tinned copper having a diameter of 0.8 mm with straight lead style.

QUICK REFERENCE DATA	
DESCRIPTION	CLASS 2 (Z5V)
Voltage (V_{DC})	500
Min. Capacitance (pF)	80 000
Max. Capacitance (pF)	180 000
Mounting	Through hole

MARKING

BC104Z

OPERATING TEMPERATURE RANGE

Class 2, 10 °C to 125 °C

TEMPERATURE COEFFICIENT

Class 2, Z5V

SECTIONAL SPECIFICATION

Class2, IEC 60348-9

CLIMATIC CATEGORY

25/085/21

CAPACITANCE RANGE

80 000 pF to 180 000 pF

RATED DC VOLTAGE

500 V

TEST DC VOLTAGE

1250 V

DIELECTRIC STRENGTH

250 % of rated voltage

INSULATION RESISTANCE AT 500 V_{DC}

 10 G Ω min.

TOLERANCE ON CAPACITANCE

+ 80 %/- 20 %

DISSIPATION FACTOR

 3.0 % max. at 1kHz/1.0 V_{RMS}
RESISTANCE TO SOLDERING HEAT

 260 °C \pm 5 °C, 10 s \pm 1 s

ORDERING INFORMATION, CLASS 2, 500 V_{DC} , STRAIGHT							
C (pF)	TOL. (%)	$D_{MAX.}$ (mm)	$T_{MAX.}$ (mm)	LEAD SPACING F (mm)	LEAD DIAMETER (mm)	$DR_{MAX.}$ (mm)	CLEAR TEXT CODE
Class 2, Z5V							
100 000	+ 80/- 20	23.6	5.0	10.0 \pm 0.8	0.8 \pm 0.05	3.0	S104Z93Z5VL83L0R



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.