

Lower Voltage Ceramic Disc Capacitors 1000 VDC Precision Capacitors

Fig. 1

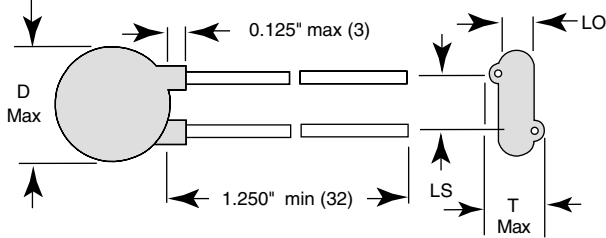
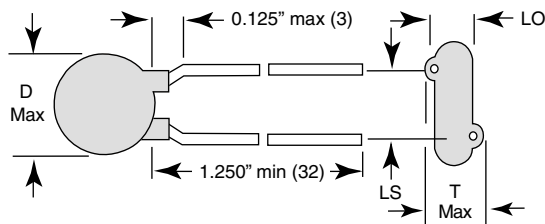


Fig. 2



LEAD OFFSET 'LO' (NOMINAL)	
1000 VDC	0.050 (1.3 mm)

INSULATION RESISTANCE:

min. 1000 ΩF or 50 000 MΩ

TOLERANCE ON CAPACITANCE:

± 5 %

DISSIPATION FACTOR:

0.1 % max. at 1 MHz; 1 V

CATEGORY TEMPERATURE RANGE:

(- 55 to + 125) °C

CLIMATIC CATEGORY ACC. TO EN60068-1:

55/125/21

OPERATING TEMPERATURE RANGE:

(- 55 to + 105) °C

FEATURES

- Ultra stable over temperature and voltage
- Used when the ultimate in stability is required



RoHS
COMPLIANT

APPLICATIONS

- Temperature compensating
- Resonant circuit

DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper or tinned copper clad steel having diameters of 0.020" (0.51 mm) or 0.025" (0.64 mm).

The capacitors may be supplied with radial kinked or straight leads having lead spacing of 0.250" (6.35 mm) or 0.375" (9.5 mm).

Coating is made of flame retardant epoxy resin in accordance with "UL94V-0".

CAPACITANCE RANGE:

1.0 pF to 1000 pF

RATED VOLTAGE:

1000 VDC

DIELECTRIC STRENGTH BETWEEN LEADS:

Component test:
2500 VDC, 2 s

CERAMIC DIELECTRIC:

C0K, C0G, U2J, M3K, S3N (Class 1)



ORDERING INFORMATION, CERAMIC 1000 VDC PRECISION CAPACITORS											
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE	WIRE SIZE		FIG.	ORDERING CODE			
					AWG	INCH (mm)					
C0K (P100)											
1.0	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCV10			
2.2								561R10TCCV22			
2.7								561R10TCCV27			
COG (NPO)											
3.0	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCV30			
3.3								561R10TCCV33			
3.9								561R10TCCV39			
4.7								561R10TCCV47			
5.0								561R10TCCV50			
5.6								561R10TCCV56			
6.8								561R10TCCV68			
8.2								561R10TCCV82			
10								561R10TCCQ10			
12								561R10TCCQ12			
15								561R10TCCQ15			
18								561R10TCCQ18			
20	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCCQ20			
22								561R10TCCQ22			
25								561R10TCCQ25			
27								561R10TCCQ27			
30								561R10TCCQ30			
33								561R10TCCQ33			
39		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCCQ39		
47									561R10TCCQ47		
50									561R10TCCQ50		
56									561R10TCCQ56		
68									561R10TCCQ68		
82									561R10TCCQ82		
100	0.440 (11.2)	0.156 (4.0)	0.250 (6.4)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCCT10			
120								561R10TCCT12			
150								561R10TCCT15			
180								561R10TCCT18			
220								561R10TCCT22			
270								561R10TCCT27			
U2J (N750)											
33	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCUQ33			
47								561R10TCUQ47			
68		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	2	561R10TCUQ68			
100								561R10TCUT10			
M3K (N1000)											
220	± 5 %	0.440 (11.2)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCUT22			
330								561R10TCUT33			
470		0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				22	0.025 (0.64)	1	561R10TCUT47
560											561R10TCUT56
S3N (N3300)											
680	± 5 %	0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT68			
1000								561R10TCUD10			



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.