

Lower Voltage Ceramic DC Disc Capacitors 1000 V_{DC} Precision Capacitors



FEATURES

- Ultra stable over temperature and voltage
- Used when the ultimate in stability is required
- Radial leads
- Ceramic singlelayer capacitor
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


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 "UL 94 V-0".

QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1				
Ceramic Dielectric	C0K	C0G	U2J	M3K	S3N
Voltage (V _{AC})	1000				
Min. Capacitance (pF)	1.0	3.0	33	560	680
Max. Capacitance (pF)	2.7	270	68	560	680
Mounting	Radial				

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 EN 60068-1

55/125/21

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

CAPACITANCE RANGE

1.0 pF to 680 pF

RATED VOLTAGE

1000 V_{DC}

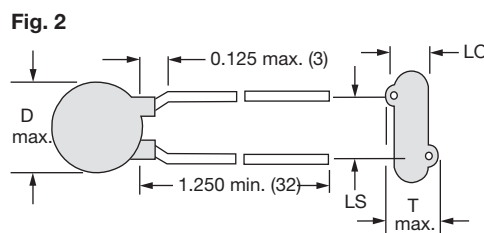
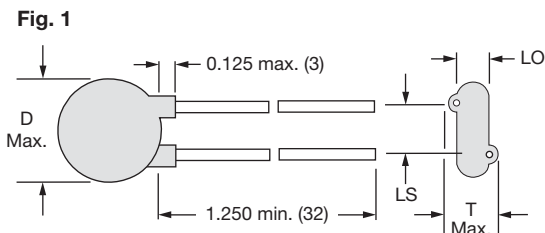
DIELECTRIC STRENGTH BETWEEN LEADS

Component test:

2500 V_{DC}, 2 s

CERAMIC DIELECTRIC

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

DIMENSIONS in inches (millimeters)

LEAD OFFSET "LO" (nominal)

1000 V_{DC}

0.050" (1.3 mm)

ORDERING INFORMATION, CERAMIC 1000 V_{DC} PRECISION CAPACITORS

C (pF)	TOL.	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	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							
C0G (NP0)															
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	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCCQ10							
12								561R10TCCQ12							
15								561R10TCCQ15							
18								561R10TCCQ18							
20								561R10TCCQ20							
22								561R10TCCQ22							
25								561R10TCCQ25							
27								561R10TCCQ27							
30		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)			0.250 (6.4)	0.025 (0.64)	561R10TCCQ30						
33										561R10TCCQ33					
39										561R10TCCQ39					
47										561R10TCCQ47					
50										0.440 (11.2)	0.156 (4.0)	0.250 (6.4)	0.025 (0.64)	561R10TCCQ50	
56															561R10TCCQ56
68															561R10TCCQ68
82															561R10TCCQ82
100	561R10TCCT10														
120	561R10TCCT12														
150	561R10TCCT15														
180	561R10TCCT18														
220	0.760 (19.3)	0.156 (4.0)	0.375 (9.5)	0.375 (9.5)	0.375 (9.5)	0.375 (9.5)	561R10TCCT22								
270								0.890 (22.6)	0.156 (4.0)	0.375 (9.5)	0.375 (9.5)	561R10TCCT27			
U2J (N750)															
33	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCUQ33							
68		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)		561R10TCUQ68							
M3K (N1000)															
560	± 5 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT56							
S3N (N3300)															
680	± 5 %	0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT68							

RELATED DOCUMENTS

General Information

www.vishay.com/doc?23140



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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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