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Vishay Cera-Mite

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



QUICK REFERENCE DATA							
DESCRIPTION	VALUE						
Ceramic Class			1				
Ceramic Dielectric	COK COG U2J M3K			МЗК	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 $M\Omega$

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

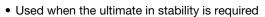
55/125/21

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

FEATURES

• Ultra stable over temperature and voltage





- Radial leads
- · Ceramic singlelayer capacitor
- Material categorization: For definitions of compliance please see <u>www.vishav.com/doc?99912</u>

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".

CAPACITANCE RANGE

1.0 pF to 680 pF

RATED VOLTAGE

1000 V_{DC}

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:

 $2500 V_{DC}$, 2 s

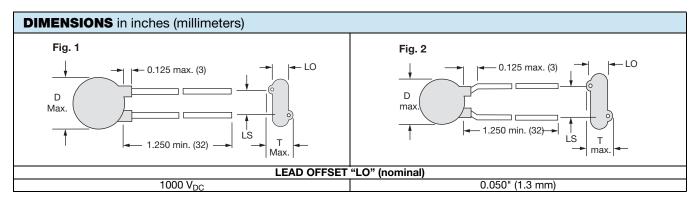
CERAMIC DIELECTRIC

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

ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000



Vishay Cera-Mite



ORE	ORDERING INFORMATION, CERAMIC 1000 V _{DC} PRECISION CAPACITORS									
С		D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	WIRE SIZE			ORDERING		
(pF)	TOL.				AWG	INCH (mm)	FIG.	CODE		
C0K	C0K (P100)									
1.0								561R10TCCV10		
2.2	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCV22		
2.7								561R10TCCV27		
C0G	(NP0)	T	T	1			1 1	504D40T00\/00		
3.0								561R10TCCV30		
3.3								561R10TCCV33		
3.9		0.250 (6.4)	0.156 (4.0)	0.250 (6.4)				561R10TCCV39		
4.7	± 0.5 pF							561R10TCCV47		
5.0								561R10TCCV50		
5.6								561R10TCCV56		
6.8					0.4	0.000 (0.54)		561R10TCCV68		
8.2					24	0.020 (0.51)		561R10TCCV82		
10								561R10TCCQ10		
12							2	561R10TCCQ12		
15					4			561R10TCCQ15		
18								561R10TCCQ18		
20		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)				561R10TCCQ20		
22		, ,	, ,	, ,				561R10TCCQ22		
25							4	561R10TCCQ25 561R10TCCQ27		
27 30								561R10TCCQ27		
33		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)				561R10TCCQ30 561R10TCCQ33		
39								561R10TCCQ33		
47	± 5 %				_	0.025 (0.64)		561R10TCCQ39 561R10TCCQ47		
50		0.440 (11.2)	0.156 (4.0)	0.250 (6.4)				561R10TCCQ47		
56		0.440 (11.2)	0.156 (4.0)	0.230 (6.4)				561R10TCCQ56		
68		0.490 (12.4)	0.156 (4.0)	0.250 (6.4)	22			561R10TCCQ56		
82		0.490 (12.4)	0.156 (4.0)	0.230 (0.4)	- 22			561R10TCCQ82		
100		` ,	` ′	` ′			1	561R10TCCT10		
120		0.560 (14.2)	0.156 (4.0)	0.375 (9.5)			'	561R10TCCT12		
150		0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	+		1	561R10TCCT15		
180		0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	+			561R10TCCT18		
220		0.760 (17.3)	0.156 (4.0)	0.375 (9.5)	1			561R10TCCT22		
270		0.890 (22.6)	0.156 (4.0)	0.375 (9.5)	+			561R10TCCT27		
	N750)	0.000 (22.0)	0.100 (4.0)	0.070 (0.0)	1	<u> </u>	1	5511110100121		
33	·	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24 0.020 (0.51)	0.020 (0.51)		561R10TCUQ33		
68	± 5 %	0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	2	561R10TCUQ68		
	(N1000)	3.07 0 (0.1)	0.100 (1.0)	0.200 (0.1)		3.020 (0.04)	1 1	5511110100000		
560	± 5 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT56		
	N3300)	3.000 ()	333 (3)	3.3.3 (3.3)		2.020 (0.01)		23		
680	± 5 %	0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT68		
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RELATED DOCUMENTS	
General Information	www.vishay.com/doc?23140



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