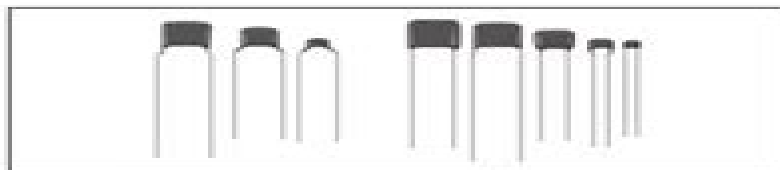




## Ceramic Capacitors

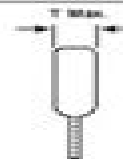
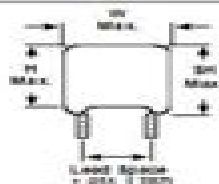
Monolithic®, Conformal-Coated, Radial Lead



### FEATURES

- EIA characteristics C0G, X7R, Z5U
- Capacitance range 10pF to 4.7 nF
- Voltage ratings 50 WVDC to 100 WVDC
- Wide choice of lead spacing

### DIMENSIONAL CONFIGURATIONS (Numbers in brackets indicate millimeters)



Drawing for dimensional purposes only. Exact outline and lead form may vary depending on size and lead spacing.

TYPE	W (Max.)	H (Max.)	T (Max.)	LEAD SIZE		LEAD SPACING (S)					
				AWG NO.	DIA.	.10 [2.54]	.20 [5.08]	.25 [6.35]	.30 [7.62]	.37 [9.40]	.40 [10.16]
9C	.138 [3.500]	.120 [3.048]	.100 [2.540]	26	.016 [.406]	X	X	X	X	X	X
1C	.250 [6.350]	.250 [6.350]	.125 [3.175]	24	.020 [.508]	X	X	X	X	X	X
2C	.300 [7.620]	.300 [7.620]	.157 [3.968]	24	.020 [.508]	X	X	X	X	X	X
3C	.400 [10.160]	.400 [10.160]	.157 [3.968]	24	.020 [.508]	X	X	X	X	X	X
5C	.500 [12.700]	.500 [12.700]	.200 [5.080]	24	.020 [.508]	X	X	X	X	X	X

### HOW TO ORDER

1C  
TYPE

10  
LEAD SPACING CODE

See Dimensional Configurations.

25U  
EIA TEMPERATURE CHARACTERISTIC

104  
CAPACITANCE CODE

This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.

M  
CAPACITANCE TOLERANCE

050  
DC VOLTAGE RATING

This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating.

B  
LEAD LENGTH\*

B = Bulk  
R = Tape and Reel  
\* 1.0 [25.4] minimum lead length.

See Dimensional Configurations.

CODE	TEMPERATURE RANGE	MAX. CAP. CHANGE OVER TEMP. RANGE
25U	-55°C to +85°C	-56%, +22%
X7R	-55°C to +125°C	±15%
C0G	-55°C to +125°C	0 ±30PPM/°C

EIA CODE	TOLERANCE	AVAILABLE IN EIA CHARACTERISTIC
J	±5%	C0G
K	±10%	X7R
M	±20%	Z5U

# Ceramic Capacitor 1j100 Data

**William F. Mullin**



## Ceramic Capacitor 1j100 Data:

*Ceramic Capacitors*, 1994      *Ceramic Capacitors*, 1991      *Data Book*, 1986      **Multilayer Ceramic Capacitors**  
EPCOS., 2002      **Ceramic capacitors**, 1993      Leaded Ceramic Capacitors Philips Research Laboratories, Philips'  
Gloeilampenfabrieken Philips Components, 1998      **High Energy Storage Ceramic Capacitor** Philipp H. Klein, 1960  
*ABC's of Capacitors* William F. Mullin, 1971      Measurement Circuits and Modeling Techniques for Titanium Capacitors  
Michael L DeLibero, 2016 Various industry needs such as electric vehicles and defibrillators are requiring capacitors with a high energy and power density that can operate in the presence of a DC bias in the 100s of volts Researchers have been developing technologies such as electrochemical capacitors for lower voltages and Titanium based capacitors for the higher voltage applications A critical step in this development is the characterization of the capacitors operating with a high DC bias This thesis outlines a practical method to characterize a capacitor of up to tens of microfarads with a DC bias up to 500 volts A circuit has been designed to characterize a capacitor through discharge curves and a swept frequency analysis of the impedance It has a frequency range of 100Hz 100kHz a DC bias range of 0 500V and an AC signal amplitude range of 0 5V An iterative regression analysis has been developed to fit measured data to a multi term capacitor model Simulated data has been generated using Muratas 34 term model for a ceramic capacitor and fit to a six term model which incorporates dielectric absorption leakage and resistance The accuracy of the fit to the data is largely determined by the number of parameters in the capacitor model and typically has the greatest relative error near resonance The six term model fit the simulated data within 20 for the magnitude of the impedance and within 2 for the phase of the impedance The relative error outside of a single peak in the phase plot stays well below 5%      Handbook of Advanced Ceramics Takaaki Tsurumi, Takuya Hoshina, 2013-04-11      Research and Development Intrinsic Reliability Subminiature Ceramic Capacitors T. I. Prokopowicz, A. R. Vaskas, SPRAGUE ELECTRIC CO NORTH ADAMS MA., 1968 The 20 000 hour voltage temperature life test matrix which involved the 0 01 microfarad C67 Case Size 1 MONOLYTHIC trade name capacitor is discussed Frequency histograms of all leakage current data and Weibull determinations of failure rates for some of the test conditions are included In addition the criteria which determined short life capacitors during testing are presented as well as a comparison of calculated assured life times with the times to actual life test failures Finally the schedule and conditions for a second voltage temperature life test matrix using 0 033 microfarad C67 device are briefly summarized      **The Capacitor Handbook** Cletus J. Kaiser, 1993-03-11 An aid to alleviating the embarrassment of the many seasoned electrical engineers and electricians who can design massive and complex circuits or wiring systems but always get confused and hesitant when it comes to choosing the right or at least the best capacitor for a particular use A comprehensive look at the theory construction and application      **The Viclan Ceramic Capacitor Handbook** Donald W. Hamer, Viclan, Inc, 1975  
**Characterization of Ceramic Capacitors** Stephen A. Constantino, 1984      **Ceramic Capacitors**, 1991      **Multilayer**

**Ceramic Capacitor Materials and Manufacture** Victor Frank Capozzi,1975      **Optimizing an Environmentally**  
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BC Components,1999      **Ceramic capacitors** Philips,1987

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