

Multilayer Ceramic Dipped Axial Capacitors 50 V_{DC}, 100 V_{DC}, 200 V_{DC} and 500 V_{DC}

INTERNAL CONSTRUCTION

Multilayer ceramic capacitors consist of electrodes, the interleaved ceramic dielectric and the external terminal connectors. The capacitance is given by the description:

$$C = \frac{A \times n \times \epsilon_0 \times \epsilon_r}{d}$$

A = Electrode area

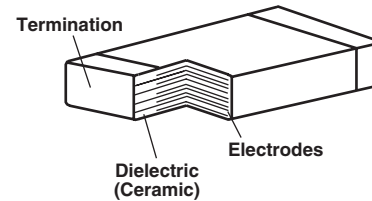
n = Number of active layers

d = Distance between electrodes

ϵ_r = Dielectric relative

ϵ_0 = Dielectric constant

Whilst the values “A x n” and “d” are respectively determined by the production process, the dielectric constant is a function of the ceramic material used.

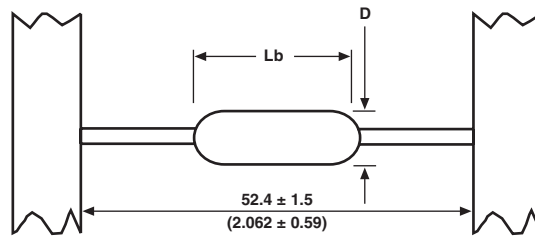


LEAD CONFIGURATION

Axial Size 15 and Size 20

Base material: FeCu

Plating: Electrolytic, tinned



CAPACITOR DIMENSIONS AND WEIGHT in millimeters (inches)			
SIZE	Lb _{max.}	Ø D _{max.}	WEIGHT (g)
15	3.8 (0.150)	2.5 (0.100)	0.14
20	5.0 (0.200)	3.0 (0.120)	0.15