

# Multi Layer Ceramic Capacitor (MLCC)

1. Model : CL03B221KO3NNND

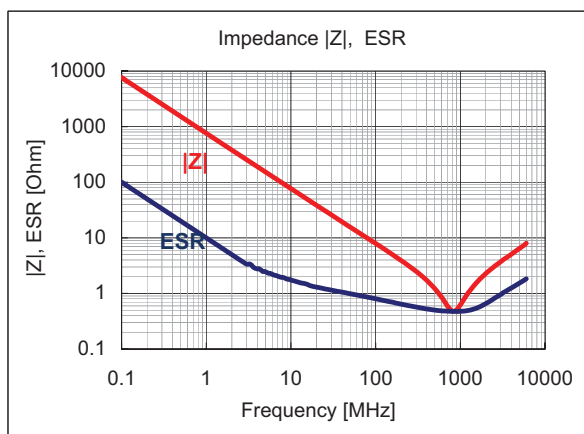
2. Description

Part no.	Size (inch(mm))	Thickness (mm)	Temperature characteristics	Capacitance value	Capacitance tolerance(%)	Voltage (V)
CL03B221KO3NNND	0201/0603	0.3mm	X7R	220pF	± 10 %	16

3. Characteristics data

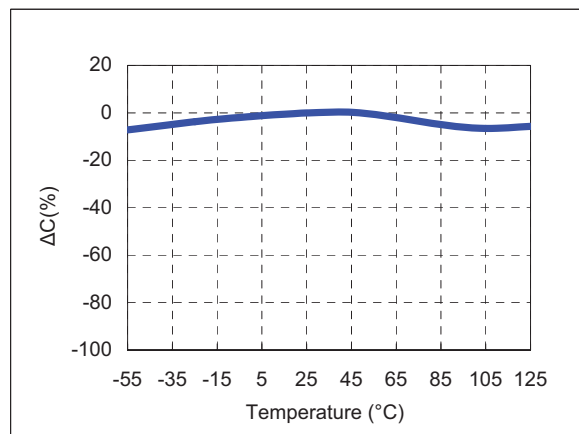
1) Frequency characteristics

Network Analyzer, 0.5Vrms, 0.1MHz to 20GHz

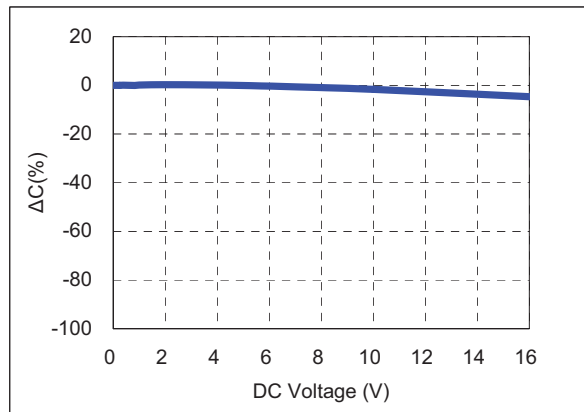


2) Temperature characteristics of capacitance(TCC)

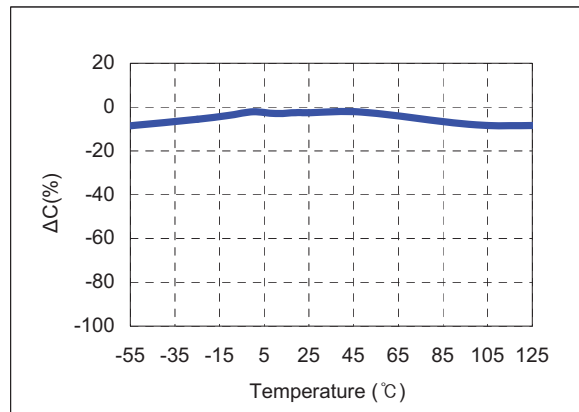
Agilent 4284A, 1kHz, 1Vrms



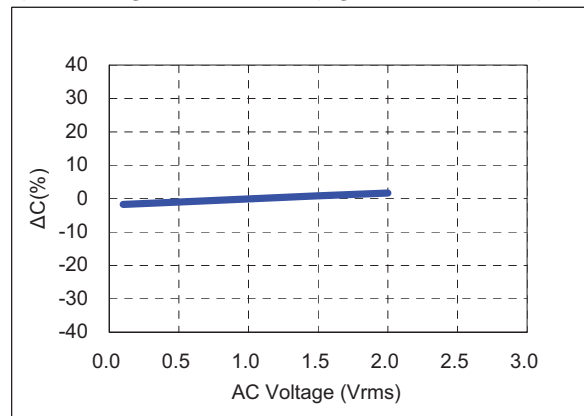
3) DC Bias characteristics (Agilent 4284A, 1kHz, 1Vrms)



4) Bias TCC characteristics (Agilent 4284A, 1kHz, 1Vrms, 8Vdc)



5) AC voltage characteristics (Agilent 4284A, 1kHz)



Any data in this sheet are subject to change, modify or discontinue without notice. The data sheets include the typical data for design reference only. If there is any question regarding the data sheets, please contact our sales personnel or application engineers.