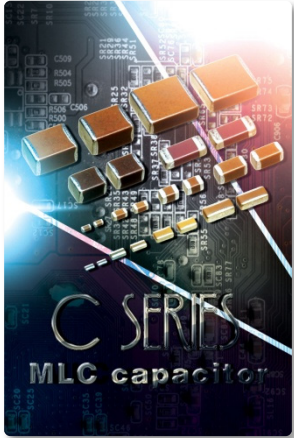
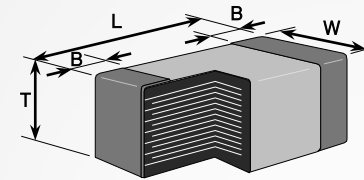


C SERIES | Open Mode Capacitor



TDK Open Mode Series MLCC is designed to avoid a short circuit when excessive board flex stress causes the ceramic component to crack. By utilizing a unique internal electrode design, the counter electrode avoids the board flex's typical crack path.

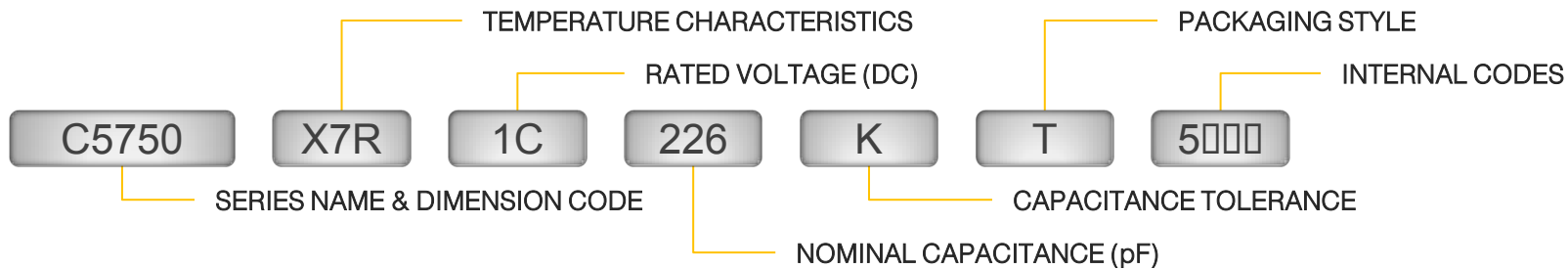
Composed of only ceramics and metals, Open Mode Series provides extremely dependable performance, exhibiting virtually no degradation, even when subjected to temperature extremes (X7R and X8R temperature ranges are available). TDK Open Mode MLCCs are available in case sizes 0805, 1206, 1210, 1812, and 2220.



L Body Length
W Body Width
T Body Height
B Terminal Width

Case Code	L (mm)	W (mm)	T max (mm)
C2012/0805	2.00	1.25	1.25
C3216/1206	3.20	1.60	1.60
C3225/1210	3.20	2.50	2.50
C4532/1810	4.50	3.20	2.30
C5750/2220	5.70	5.00	2.80

Part Number Description



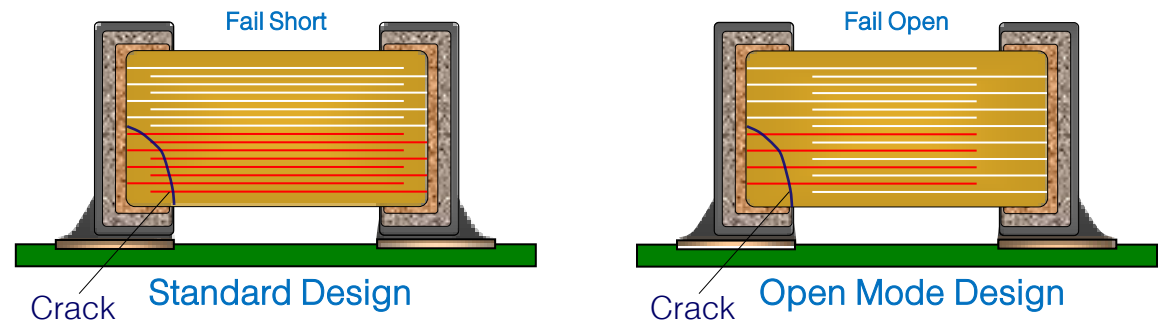
Features:

- ❖ Increase resistance to mechanical bending, temperature cycle, vibration, and electrical stresses
- ❖ Wider distance between the end of the opposite electrode and the termination
- ❖ Reduces the risk of short circuit failures
- ❖ X7R and X8R temperature ranges

Applications:

- ❖ High reliability and other high stress applications
- ❖ Battery line circuit with high board flex stress
- ❖ DC-DC converter

Design Construction of Open Mode Capacitor



➤ Open Mode capacitor is designed with wider gap between the terminal and the internal electrodes to help reduce the risk of short circuit in the event of capacitor cracking due to mechanical stress such as board bending.

C SERIES | Open Mode / X8R, X7R

Capacitance (pF)	Cap Code	C2012 0805			C3216 1206			
		2E (250V)	2A (100V)	1H (50V)	2J (630V)	2E (250V)	2A (100V)	1C (16V)
1,000	102	█	█		█			
1,500	152	█	█		█			
2,200	222	█	█		█			
3,300	332	█	█		█			
4,700	472	█	█		█			
6,800	682	█	█		█			
10,000	103	█	█		█			
15,000	153	█	█		█			
22,000	223		█		█	█		
33,000	333		█	█	█	█		
47,000	473		█	█	█	█		
68,000	683		█	█	█	█		
100,000	104		█	█	█	█		
150,000	154		█	█	█	█		
1,000,000	105		█	█	█	█		
4,700,000	475		█	█	█	█	█	

Capacitance (pF)	Cap Code	C3225 1210						C4532 1812						C3225 1210					
		2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
47,000	473	█						█											
68,000	683	█						█											
100,000	104		█										█						
150,000	154		█										█						
220,000	224		█										█						
330,000	334			█										█					
470,000	474				█										█				
680,000	684				█					█						█			
1,000,000	105			█							█				█				
1,500,000	155			█							█					█			
2,200,000	225			█							█						█		
3,300,000	335											█						█	
4,700,000	475											█						█	
6,800,000	685												█					█	
10,000,000	106												█					█	
15,000,000	156													█				█	
22,000,000	226														█			█	█

█ X7R █ X8R