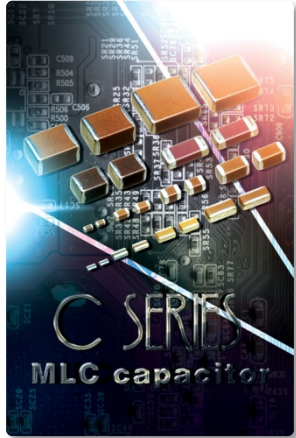
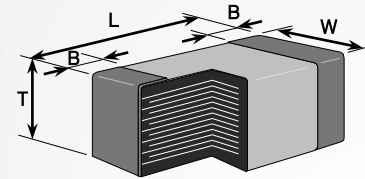


# C SERIES | Mid Voltage Capacitor



With a rated voltage ranging from 100V to 630V, TDK's mid voltage multilayer ceramic chip capacitors (MLCC) use ceramic dielectric thin-layer and advanced multi-layering technologies to improve capacitance to the industry's highest levels in the mid-voltage range.

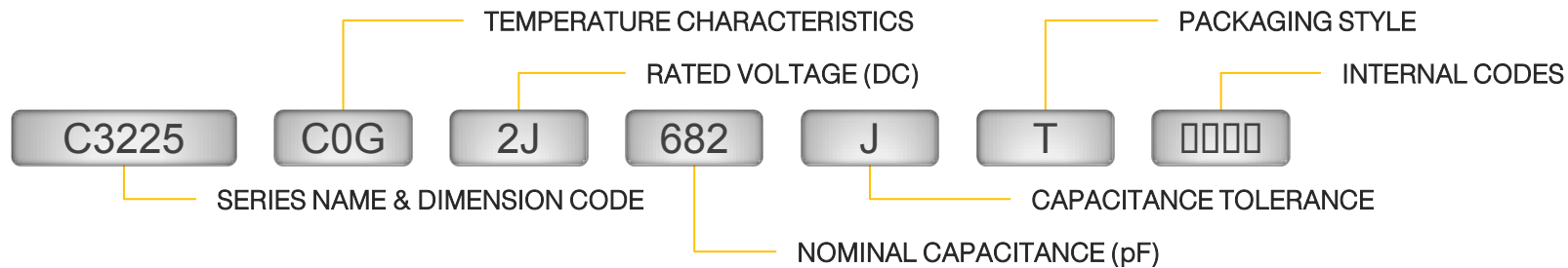
These products feature Class I & Class II temperature characteristics (operating temperature range: -55°C and up to 125°C), making them ideal for use in electric flash circuits in digital camera, higher voltage switching power supply smoothing circuits needed for industrial equipment, power factor correction, various lighting application, and general circuits that require higher voltages than traditional sub 100V rated MLCC's.



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

Case Code	L (mm)	W (mm)	T max (mm)
C1005/0402	1.00	0.50	0.50
C1608/0603	1.60	0.80	0.80
C2012/0805	2.00	1.25	1.25
C3216/1206	3.20	1.60	1.60
C3225/1210	3.20	2.50	2.30
C4532/1810	4.50	3.20	3.20
C5750/2220	5.70	5.00	2.50

## Part Number Description



## Features:

- ❖ Advanced dielectric materials
- ❖ Wide capacitance range up to 22uF
- ❖ Higher voltage rating in smaller case size
- ❖ Voltage rating of 100V, 250V, 450V, and 630V
- ❖ High mechanical strength
- ❖ Excellent DC bias properties

## Applications:

- ❖ Snubber in power supply
- ❖ Ringer cap in telephone set and modem
- ❖ Electric flash circuits in digital still camera
- ❖ Power factor correction
- ❖ Input/output filter in power supply
- ❖ Driver circuit in plasma display
- ❖ Noise bypass
- ❖ Lighting application

# C SERIES | Mid Voltage / C0G

Capacitance (pF)	Cap Code	C1608 0603		C2012 0805		C3216 1206			C3225 1210			C4532 1812		
		2E (250V)	2A (100V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)
100	101	COG	COG	COG	COG	COG								
120	121													
150	151													
180	181	COG	COG			COG								
220	221				COG									
270	271													
330	331													
390	391				COG									
470	471				COG									
560	561													
680	681	COG												
820	821			COG										
1,000	102		COG	COG	COG	COG								
1,200	122													
1,500	152													
1,800	182			COG										
2,200	222													
2,700	272			COG	COG	COG								
3,300	332						COG							
3,900	392				COG		COG	COG						
4,700	472				COG		COG	COG						
5,600	562						COG	COG						
6,800	682							COG						
8,200	822										COG			
10,000	103						COG	COG	COG					
15,000	153								COG	COG	COG			
22,000	223											COG		
33,000	333												COG	
47,000	473													COG
68,000	683													COG
100,000	104													COG

 COG

# C SERIES | Mid Voltage / X7R, X7S, X7T

Capacitance (pF)	Cap Code	C1005 0402	C1608 0603	C2012 0805			C3216 1206				
		2A (100V)	2A (100V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)	2A (100V)	
1,000	102	X7S	X7R		X7R	X7R	X7R				
1,500	152										
2,200	222	X7S									
3,300	332										
4,700	472										
6,800	682										
10,000	103	X7S		X7T			X7R	X7T			
15,000	153								X7R		
22,000	223										
33,000	333										
47,000	473		X7S	X7T			X7R	X7T			
68,000	683							X7T			
100,000	104		X7S						X7T		
150,000	154									X7R	
220,000	224										
330,000	334										
470,000	474										
1,000,000	105										X7S
2,200,000	225										X7S

■ X7R   
 ■ X7S   
 ■ X7T

# C SERIES | Mid Voltage / X7R, X7S, X7T, X6S

Capacitance (pF)	Cap Code	C3225 1210				C4532 1812				C5750 2220			
		2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)	2A (100V)
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				■		■	■		■	■	■	■
10,000,000	106				■		■	■		■	■	■	■
15,000,000	156				■		■	■		■	■	■	■

■ X6S   
 ■ X7R   
 ■ X7S   
 ■ X7T