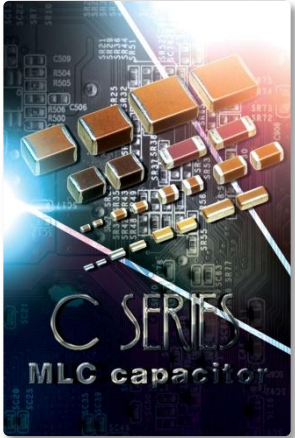


# C SERIES | Mid Voltage Capacitor



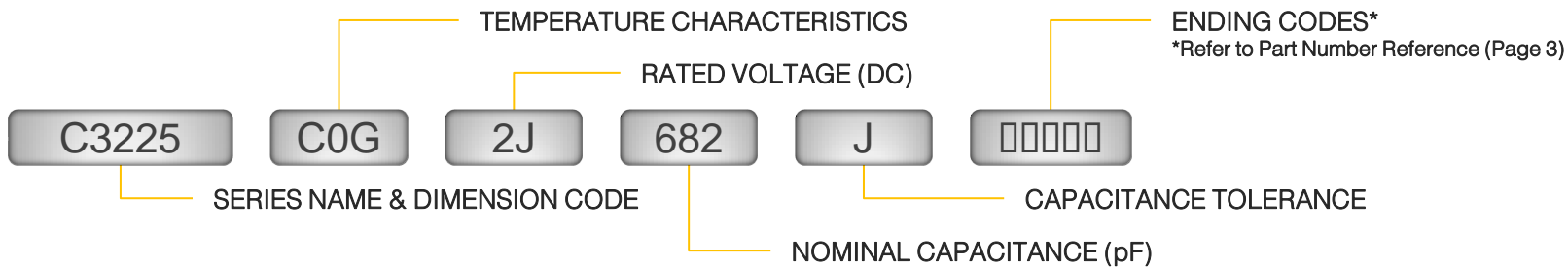
With a rated voltage ranging from 100V to 630V, TDK's mid voltage multilayer ceramic chip capacitors (MLCC) use ceramic dielectric thin-layer and advanced multi-layering technologies to improve capacitance to the industry's highest levels in the mid-voltage range.

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.

Case Code	L (mm)	W (mm)	T (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

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

## 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 / COG

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													
220	221				COG									
270	271													
330	331													
390	391													
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													
2,200	222													
2,700	272													
3,300	332													
3,900	392													
4,700	472													
5,600	562													
6,800	682													
8,200	822													
10,000	103													
15,000	153													
22,000	223													
33,000	333													
47,000	473													
68,000	683													
100,000	104													COG

 COG

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

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	X7S	X7R		X7R	X7R	X7R					
2,200	222	X7S	X7R		X7R	X7R	X7R					
3,300	332	X7S	X7R		X7R	X7R	X7R					
4,700	472	X7S	X7R		X7R	X7R	X7R					
6,800	682	X7S	X7R		X7R	X7R	X7R					
10,000	103	X7S	X7R	X7T	X7R	X7R	X7R	X7T				
15,000	153		X7R	X7T	X7R	X7R	X7R	X7T		X7R		
22,000	223		X7R	X7T	X7R	X7R	X7R	X7T		X7R		
33,000	333		X7S	X7T	X7R	X7R	X7R	X7T		X7R	X7R	
47,000	473		X7S	X7T	X7R	X7R	X7R	X7T		X7R	X7R	
68,000	683		X7S	X7T	X7R	X7R	X7R	X7T		X7R	X7R	
100,000	104		X7S	X7T	X7R	X7R	X7R	X7T		X7R	X7R	
150,000	154				X7R	X7S	X7R	X7R		X7R	X7R	
220,000	224				X7R	X7S	X7R	X7R		X7R	X7R	
330,000	334				X7R	X7S	X7R	X7R		X7R	X7R	X7R
470,000	474				X7R	X7S	X7R	X7R		X7R	X7R	X7R
1,000,000	105				X7R	X7S	X7R	X7R		X7R	X7R	X7R
2,200,000	225				X7R	X7S	X7R	X7R		X7R	X7R	X7R
3,300,000	335				X7R	X7S	X7R	X7R		X7R	X7R	X7S

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	X7R				X7R							
68,000	683	X7R				X7R							
100,000	104	X7R		X7R		X7R							
150,000	154	X7R		X7R		X7R		X7R		X7R			
220,000	224		X7T	X7R		X7R		X7R		X7R			
330,000	334			X7R	X7R	X7R		X7R		X7R		X7R	
470,000	474			X7R	X7R	X7R		X7R		X7R		X7R	
680,000	684			X7R	X7R	X7R		X7R		X7R		X7R	
1,000,000	105			X7R	X7R	X7R		X7R		X7R		X7R	
1,500,000	155			X7R	X7R	X7R		X7R		X7R	X7S	X7R	X7R
2,200,000	225			X7R	X7R	X7R		X7R		X7R	X7S	X7R	X7R
3,300,000	335			X7R	X7R	X7R		X7R		X7R	X7S	X7R	X7R
4,700,000	475			X7R	X7S	X7R		X7R		X7R	X7S	X7R	X7R
10,000,000	106			X7R	X7S	X7R		X7R		X7R	X7S	X7R	X7R
15,000,000	156			X7R	X7S	X7R		X7R		X7R	X7S	X7R	X7R

■ X6S   
 ■ X7R   
 ■ X7S   
 ■ X7T