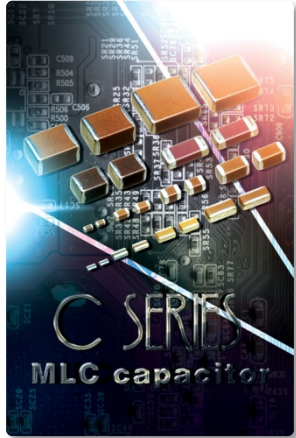


# C SERIES | High Voltage Capacitor



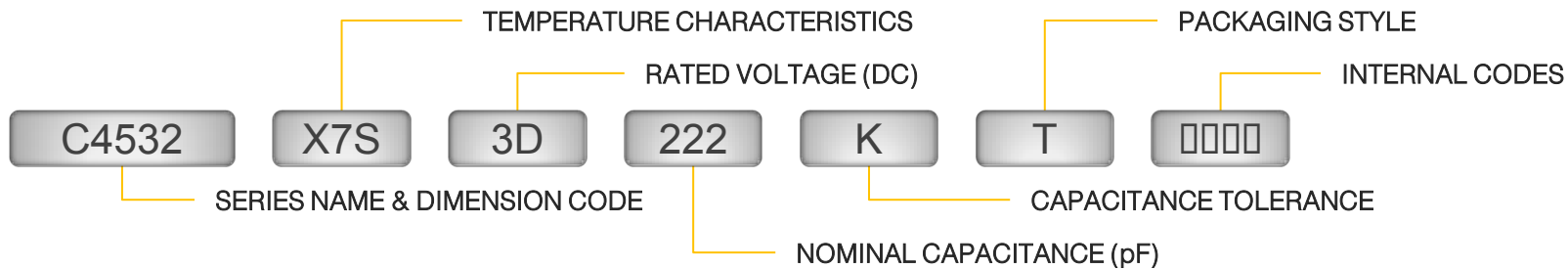
With rated voltage range of 1000V to 3000V, TDK's High Voltage C Series multilayer ceramic chip capacitors (MLCC) use advanced ceramic dielectric thin-layer and multi-layering technologies to offer capacitance to the industry's highest levels in the high-voltage range and improved withstanding voltage characteristics.

These products feature C0G and X7R temperature characteristics (operating temperature range: -55°C to 125°C), making them ideal for use in higher temperature circuit requirements. TDK High Voltage C series is available in 1206 to 2220 case size. Additionally, TDK High Voltage MLCC's feature substantial AC and DC breakdown voltage capabilities to ensure excellent reliability in the higher voltage applications.

Case Code	Dielectric	L (mm)	W (mm)	T max (mm)
C3216/1206	X7S	3.20	1.60	1.30
C3225/1210	X7S	3.20	2.50	2.50
C4520/1808	C0G	4.50	2.00	2.00
	X7R	4.50	2.00	1.30
C4532/1810	C0G	4.50	3.20	2.50
	X7R	4.50	3.20	2.00
C5750/2220	X7S	5.70	5.00	2.50

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

## Part Number Description



## Features:

- ❖ Up to 3000V rated voltage
- ❖ Wide case size offering 1206 to 2220
- ❖ Advanced design provides improved withstanding voltage characteristics
- ❖ TDK's proprietary internal electrode structure
- ❖ Low ESR at high frequency
- ❖ Low dielectric constant
- ❖ Complies with ISO-8802-3 required for LAN
- ❖ Suitable for 100 Base-T corresponding LAN applications

## Applications:

- ❖ Inverter circuits with a liquid crystal backlight
- ❖ LAN products
- ❖ High voltage coupling
- ❖ Lighting Ballast
- ❖ Higher power DC-DC /AC-DC converter
- ❖ Ethernet Switch
- ❖ Switched mode power supply
- ❖ General high voltage circuits

# C SERIES | High Voltage / C0G, X7R, X7S

Capacitance (pF)	Cap Code	C4520 1808	C4532 1812
		3F (3KV)	3F (3KV)
10	100	█	
12	120	█	
15	150	█	
18	180	█	
22	220	█	
27	270	█	
33	330	█	
39	390	█	
47	470	█	
56	560	█	
68	680	█	
82	820	█	
100	101	█	█
120	121		█
150	151		█
180	181		█
220	221		█
270	271		█
330	331		█

Capacitance (pF)	Cap Code	C3216 1206		C3225 1210		C4520 1808		C4532 1812		C5750 2220	
		3D (2KV)	3A (1KV)	3D (2KV)	3A (1KV)	3D (2KV)	3A (1KV)	3D (2KV)	3A (1KV)	3D (2KV)	3A (1KV)
100	101	█									
220	121										
470	471	█				█	█				
1,000	102		█	█				█	█		
2,200	222		█	█							
4,700	472				█				█	█	
10,000	103							█		█	
22,000	223										█
47,000	473										█

█ X7R █ X7S █ C0G