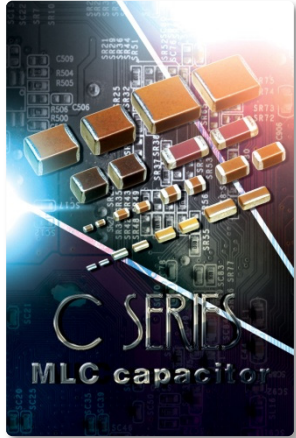
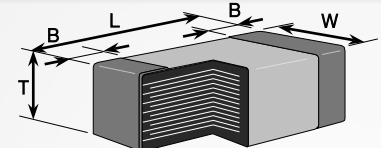


C SERIES | Conductive Epoxy



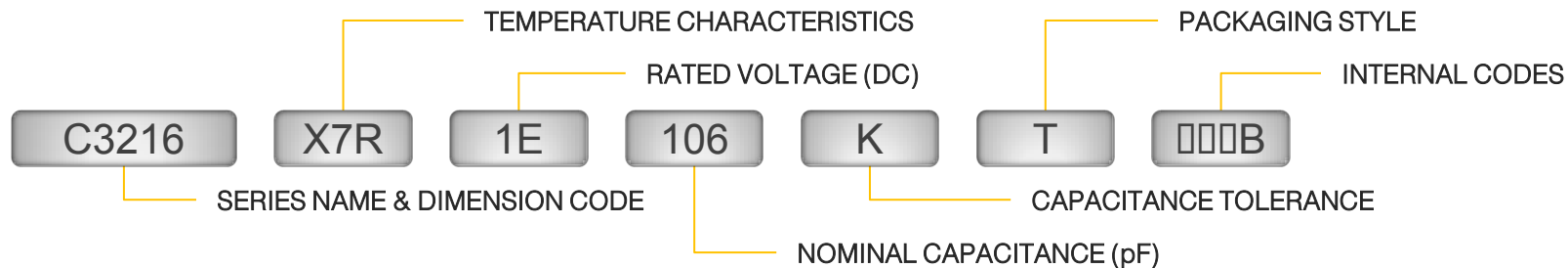
TDK's Conductive Epoxy Series is a conductive glue-mounted device rather than solder-mounted. In high-temperature environments, the connectivity reliability is focused on the solder fillet because there are thermal expansion coefficient differences between the substrate, MLCC, and solder fillet. A conductive glue-mounted device allows for more "flexibility" during periods of expansion and contraction because the thermal expansion differences have been reduced by using a non-solder attachment.

Conductive glue is a common method of mounting components in applications that demand reliability at high temperatures, particularly in automotive environments. It's also used in applications that cannot be subjected to the heat of the solder paste mounting process, such as LCD panels, organic EL and LED displays, and CCD devices, which are particularly sensitive to high temperatures.



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	2.50

Part Number Description



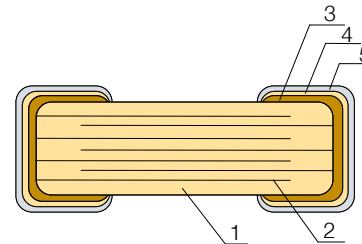
Features:

- ❖ AgPdCu termination for conductive glue mounting
- ❖ Reduce risk of silver migration
- ❖ Improved mechanical/thermal strength when use with conductive glue
- ❖ AEC Q-200 compliant
- ❖ RoHS, WEE, and REACH compliant

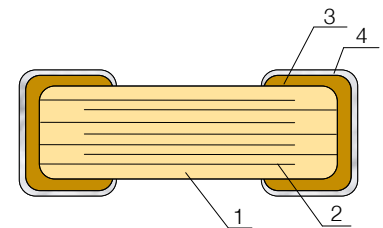
Applications:

- ❖ Transmission control
- ❖ Engine sensor module
- ❖ Automotive power train
- ❖ Anti-Lock Breaking System
- ❖ Application requiring conductive glue mounting method

Standard Termination



AgPdCu Termination



No.	NAME	MATERIAL	
		Class 1	Class 2
(1)	Ceramic Dielectric	CaZrO ₃	BaTiO ₃
(2)	Internal Electrode	Nickel (Ni)	
(3)	Termination	Copper (Cu)	
(4)		Nickel (Ni)	
(5)		Tin (Sn)	

No.	NAME	MATERIAL	
		Class 1	Class 2
(1)	Ceramic Dielectric	CaZrO ₃	BaTiO ₃
(2)	Internal Electrode	Nickel (Ni)	
(3)	Termination	Copper (Cu)	
(4)		AgPdCu	

C SERIES | Conductive Epoxy / C0G, X7R, X8R

Capacitance (pF)	Cap Code	C1005 0402		C1608 0603						C2012 0805		C3216 1206	C3225 1210
		1H (50V)	1E (25V)	2A (100V)	1H (50V)		1E (25V)	1H (50V)	1E (25V)	1E (25V)	1H (50V)		
10	100												
100	101												
220	221												
470	471												
1,000	102												
2,200	222												
4,700	472												
10,000	103												
22,000	223												
47,000	473												
100,000	104												
1,000,000	105												
10,000,000	106												

 C0G  X7R  X8R