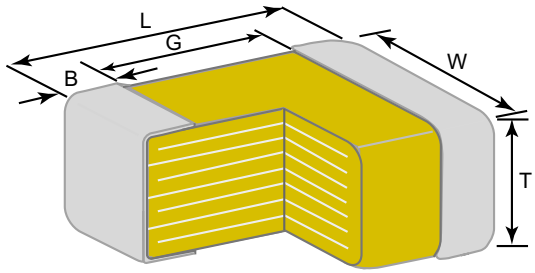
TDK MLCC Datasheet[1]

TDK P/N

C1005	Y5V	1C	104	Z	T	XXXX
1)	2)	3)	4)	5)	6)	7)

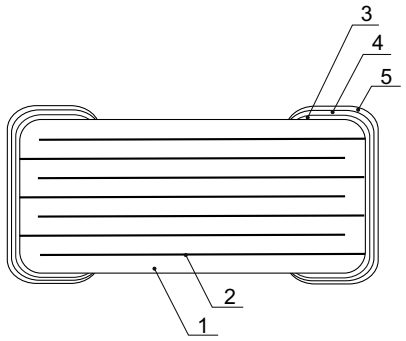
No.	Segment	Detail	Comments
1	Case Size	1.0 x 0.5 mm	See below for dimensions.
2	Temperature Characteristics	-30 +85°C +22% / -82%	Class III ; Conforms to EIA 198
3	Rated Voltage	16 V	DC
4	Capacitance	100,000 pF	1.0 ± 0.2 Vrms , 1MHz ± 10%
5	Capacitance Tolerance	+80%, -20%	Conforms to IEC 384-9
6	Packaging Style	Tape and Reel, 8 mm	EIA 481 Format
7	TDK internal Code	XXXX	(Internal TDK use only)
-	Dissipation Factor (DF)	8.5% max.	1.0 ± 0.2 Vrms , 1MHz ± 10%
-	Insulation Resistance	5000 MΩ min.	apply rated voltage for 60s

Physical Dimensions



Symbol	Dimensions (mm)
L	1.0 ± 0.05
W	0.5 ± 0.05
T	0.55 max
B	0.15 min.
G	0.35 min.

Material System



No.	Name	Material			
		Class I		Class II	
		Pd	TME	Pd	TME
1	Dielectric	TiO2	CaZrO3	BaTiO3	
2	Electrode	Pd	Ni	Pd	Ni
3	Termination	Ag or Ag/Pd	Cu	Ag or Ag/Pd	Cu
4		Ni			
5		Sn			

1 This datasheet gives a basic overview of the multilayer ceramic capacitor as defined in the above TDK part number. A full specification (including part number construction, available capacitance ranges, packaging and caution notes) is available upon request. The information above is subject to change by TDK without any notice.

TDK®

09/13/01