



TDK MLCC Datasheet 1

TDK P/N **C1005** **X7R** **1E** **683** **K** **T** **XXXX**

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No.	Segment	Detail	Comments
1	Case Size	1.0 X 0.5 mm	See below for dimensions.
2	Temperature Characteristics	-55 to +125 C, ± 15 to ± 10 %	Class2 Conforms to EIA 198
3	Rated Voltage	25.0 V	DC
4	Capacitance	68,000 pF	1.0 +/- 0.2 Vrms 1 kHz +/- 10%
5	Capacitance Tolerance	-10 to 10 %	Conforms to IEC 384-9
6	Packaging Style	Punched (Paper)Taping [180mm Reel]	EIA 481 Format
7	TDK internal Code	XXXX	(Internal TDK use only)
-	Dissipation Factor (DF)	0 % max	1.0 +/- 0.2 Vrms 1 kHz +/- 10%
-	Insulation Resistance	7,353 MOhm min	Apply rated voltage for 60s

Physical Dimensions		Material System			
Symbol	Dimensions	No	Name	Material	
L	1			Class 1	Class 2
W	0.5			TME	TME
T	0.5	1	Dielectric	CaZrO3	BaTiO3
B	0.1 min	2	Electrode	Ni	Ni
G	0.3 min	3	Termination	Cu	Cu
		4		Ni	
		5		Sn	

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