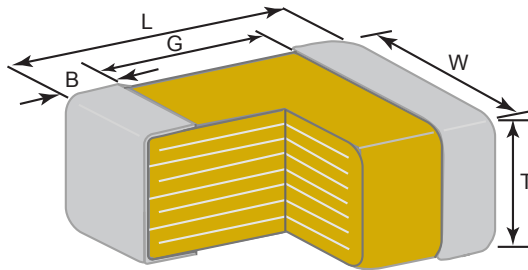
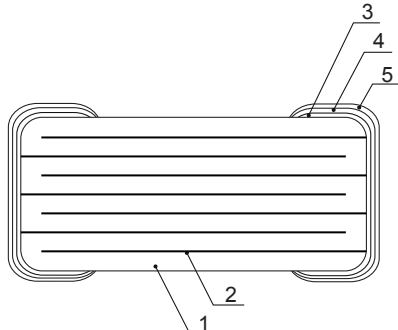


TDK MLCC Datasheet¹

TDK P/N

C1608	X5R	0J	475	M	T	XXXX
1)	2)	3)	4)	5)	6)	7)

No.	Segment	Detail	Comments
1	Case Size	1.6 x 0.8 mm	See below for dimensions.
2	Temperature Characteristics	-55+85°C ± 15%	Class II ; Conforms to EIA 198
3	Rated Voltage	6.3V	DC
4	Capacitance	4,700,000 pF	1.0 ± 0.2 Vrms , 1kHz ± 10%
5	Capacitance Tolerance	± 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)	0.10 max.	1.0 ± 0.2 Vrms , 1kHz ± 10%
-	Insulation Resistance	21 MWmin.	apply rated voltage for 60s

Physical Dimensions	Material System																																																								
																																																									
<table><tr><th>Symbol</th><th>Dimensions (mm)</th></tr><tr><td>L</td><td>1.6 +0.15/-0.10</td></tr><tr><td>W</td><td>0.8 +0.15/-0.10</td></tr><tr><td>T</td><td>0.8 +0.15/-0.10</td></tr><tr><td>B</td><td>0.2 min.</td></tr><tr><td>G</td><td>0.5 min.</td></tr></table>	Symbol	Dimensions (mm)	L	1.6 +0.15/-0.10	W	0.8 +0.15/-0.10	T	0.8 +0.15/-0.10	B	0.2 min.	G	0.5 min.	<table><tr><th rowspan="2">No.</th><th rowspan="2">Name</th><th colspan="4">Material</th></tr><tr><th colspan="2">Class I</th><th colspan="2">Class II</th></tr><tr><td></td><td></td><td>Pd</td><td>TME</td><td>Pd</td><td>TME</td></tr><tr><td>1</td><td>Dielectric</td><td>TiO2</td><td>CaZrO3</td><td colspan="2">BaTiO3</td></tr><tr><td>2</td><td>Electrode</td><td>Pd</td><td>Ni</td><td>Pd</td><td>Ni</td></tr><tr><td>3</td><td rowspan="3">Termination</td><td>Ag or Ag/Pd</td><td>Cu</td><td>Ag or Ag/Pd</td><td>Cu</td></tr><tr><td>4</td><td colspan="4">Ni</td></tr><tr><td>5</td><td colspan="4">Sn</td></tr></table>	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			
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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.