TDK MLCC Capacitance Offering

Rev. C10

Commercial / Auto (non-Safety) | General Applications ≤ 630V Rated Voltage

Case Size JIS (EIA)			C0G [-55/+125C,0±30ppm/C] E12 series		X7R [-55/+125C, ±15%] E6 series		X7S [-55/+125C, ±22%] E6 series		X6S [-55/+105C, ±22%] E6 series		X5R [-55/+85C, ±15%] E6 series		Y5V [-30/+85C, ±22/-82%] E3 series	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
C0402 (01005)	4V	0G												
	6.3V	0J									681	103		
	10V	1A			101	681					101	222		
	16V	1C	0R5	150 (101)							101	681		
	25V	1E												
	35V	1V												
	50V	1H												
C0603 (0201)	4V	0G								104	(334)	(105)		
	6.3V	0J				103					103	224 (105)		
	10V	1A			682	103					682	224		
	16V	1C			101	332					222	224		103
	25V	1E	0R5	101	101	332					101	332		
	35V	1V												
	50V	1H	0R5	101	101	471					101	471		
C1005 (0402)	4V	0G							105	225	225	475 (106)		
	6.3V	0J								105	104	475		105
	10V	1A			473	224				105	473	225 (475)	224	474
	16V	1C			103	224					223	105	104	224
	25V	1E	561	102	102	104					103	224	104	224
	35V	1V			(103)	(104)					(103)	(104)		
	50V	1H	0R5	102 (332)	221	104					221	104		103
	100V	2A					102	103						
	250V	2E												
	450V	2W												
	630V	2J												
C1608 (0603)	4V	0G							475	106		106 (226)		
	6.3V	0J			155	225					225	106 (226)	475	106
	10V	1A			224	225				475	224	106	105	225
	16V	1C			223	105					224	475	104	225
	25V	1E	392	103	103	105					154	225	104	105
	35V	1V			(154)	(105)					(154)	(225)		
	50V	1H	0R5	103 (333)	101	474					104	105	104	474
	100V	2A	101	122	102	223	333	104						
	250V	2E	101	681										
	450V	2W												
	630V	2J												
C2012 (0805)	4V	0G						(226)		476		476		
	6.3V	0J			685	106			106	226	105	476		226
	10V	1A			105	106			106	226	105	226 (476)	475	106
	16V	1C			224	475					105	226	105	106
	25V	1E	392	333	104	475					105	106	105	475
	35V	1V			(474)	(475)					(155)	(106)		
	50V	1H	100	333 (104)	102	225						475	104	225
	100V	2A	101	472	102	104	154	105						
	250V	2E	101	272	102	223								
	450V	2W												
	630V	2J												
C3216 (1206)	4V	0G						(476)		107				
	6.3V	0J					(226)	(476)		476	106	107		476
	10V	1A				106		(226)		476	225	107	106	226
	16V	1C			474	106					225	476	475	226
	25V	1E	822	104 (334)	224	106					225	226	475	106
	35V	1V			(155)	(106)					(335)	(226)		
	50V	1H	392	104	104	335					335	106	225	475
	100V	2A	392	103	333	105	155	225						
	250V	2E	332	822	153	104								
	450V	2W												
	630V	2J	101	332	102	333								
C3225 (1210)	4V	0G								107				
	6.3V	0J							476	107	226	107		107
	10V	1A				226					106	476	226	476
	16V	1C			106	226					106	226	106	476
	25V	1E		(105)	225	106						106 (226)	106	226
	35V	1V												
	50V	1H	223	104	474	475	475	106		475		475	475	106
	100V	2A	153	473	334	225	335	475						
	250V	2E	103	153	104	224								
	450V	2W												
	630V	2J	392	682	473	683								
C4532 (1812)	4V	0G												
	6.3V	0J									476	107		
	10V	1A									226	107		107
	16V	1C			106	336					226	336		476
	25V	1E			475	226					106	226		226
	35V	1V												
	50V	1H	473	224 (225)	105	685								106
	100V	2A	473	104	684	225	335	475						
	250V	2E	223	473	154	474								
	450V	2W												
	630V	2J	822	223	683	104								
C5750 (2220)	4V	0G												
	6.3V	0J										107		
	10V	1A									686	107		107
	16V	1C			226	476					336	476		107
	25V	1E			106	226						226		476
	35V	1V												
	50V	1H			475	106						106		226
	100V	2A			105	475	685	156						
	250V	2E			334	105								
	450V	2W												
	630V	2J			154	224								

() = capacitance value under development

Notes:

- Capacitance above is provided in a three digit code, designating a picofarad (pF) value. The first and second digits identify the first and second significant figures of the capacitance, the third identifies the multiplier. R indicates a decimal point (Ex. 104 = 100,000pF, or 0.1uF ; 1R8 = 1.8pF). Capacitance steps are offered in the E-series listed in the header. Red values indicates new TDK items.
- TDK offers General Application MLCCs as well as Specialty Applications MLCCs. The capacitance range for General Application MLCCs can be found here, Specialty Application MLCCs can be found in the TDK MLCC Product Guide. You may also find the cap ranges located within our catalog and website (www.tdk.com).
- This data subject to change without notice, please contact your TDK sales representative for most current revision. This datasheet is intended for customer use only - do not distribute outside of your organization.