

SURFACE MOUNT MLCCs 10 - 200 VDC

CASE SIZE			Voltage	AVAILABLE CAPACITANCE CODE																									
JDI	Inches	(mm)		0R5	XR5	100	120	150	180	220	270	330	390	470	560	680	820	101	121	151	181	221	271	331	391	471	561	681	821
R05	0201	(0603) L .024 ±.001 W .012 ±.001 T .012 ±.001 EB .006 ±.002 (0.60 ±.03) (0.30 ±.03) (0.30 ±.03) (0.15±.05)	25V	█																									
			16V	█											█														
			10V	█											█														
			50V	█											█														
R07	0402	(1005) L .040 ±.004 W .020 ±.004 T .025 Max. EB .008 ±.004 (1.02 ±.10) (0.51 ±.10) (0.64) (0.20±.10)	50V	█											█														
			25V	█											█														
			16V	█											█														
			10V	█											█														
R14	0603	(1608) L .063 ±.008 W .032 ±.008 T .035 Max. EB .010±.005 (1.60 ±.20) (0.81 ±.20) (0.89) (.25±.13)	200V	█											█														
			100V	█											█														
			50V	█											█														
			25V	█											█														
			16V	█											█														
R15	0805	(2012) L .080 ±.010 W .050 ±.010 T .050 Max. EB .020±.010 (2.03 ±.25) (1.27 ±.25) (1.27) (0.51±.25)	200V	█											█														
			100V	█											█														
			50V	█											█														
			25V	█											█														
			16V	█											█														
R18	1206	(3216) L .125 ±.010 W .062 ±.010 T .050 Max. EB .020 ±.010 (3.17 ±.25) (1.57 ±.25) (1.27) (0.51 ±.25)	200V	█											█														
			100V	█											█														
			50V	█											█														
			25V	█											█														
S41	1210	(3224) L .125 ±.010 W .095 ±.010 T .065 Max. EB .020 ±.010 (3.18 ±.25) (2.41 ±.25) (1.65) (0.51 ±.25)	200V												NP0														
			100V												X7R														
			50V												X5R														
			25V																										
			16V																										
S43	1812	(4532) L .175 ±.010 W .125 ±.010 T .085 Max. EB .025 ±.015 (4.45 ±.25) (3.17 ±.25) (2.16) (0.64 ±.38)	200V																										
			100V																										
			50V																										
			25V																										



How To ORDER - SURFACE MOUNT MLCC

Part number written: 100R07W104KV4E

100	R 07	W	104	K	V	4	E
VOLTAGE	SERIES/SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	TERMINATION	MARKING	PACKING
100 = 10 V DC 160 = 16 V DC 250 = 25 V DC 500 = 50 V DC 101 = 100 V DC 201 = 200 V DC	R05 = 0201 R07 = 0402 R14 = 0603 R15 = 0805 R18 = 1206 S41 = 1210 S43 = 1812	N = NP0 W = X7R X = X5R	1st two digits are significant; third digit denotes number of zeros, R = decimal. 5R6 = 5.6 pF 100 = 10 pF 102 = 1,000 pF 474 = 0.47 μF	* B = ± 0.10 pF * C = ± 0.25 pF * D = ± 0.50 pF F = ± 1 % G = ± 2 % J = ± 5 % K = ± 10 % M = ± 20 % *Values < 10 pF only	V = Nickel Barrier with 100% Tin Plating (Matte) T = SnPb	3 = Special 4 = Unmarked 6 = EIA Code* *Not available on sizes ≤ 0402	E = Embossed 7" T = Punched 7" U = Embossed 13" R = Punched 13" No code = bulk Tape specifications on page 48. Not all tape styles are available on all parts.

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AVAILABLE CAPACITANCE CODE																				Voltage	CASE SIZE																		
122	152	182	222	272	332	392	472	562	822	103	123	153	183	223	273	333	473	563	683			823	104	224	334	474	105	225	335	475	106	476	107						
																							NP0													25V	0201 R05		
																							X7R												16V				
																							X5R												10V				
																																				50V	0402 R07		
																																			25V				
																																				16V			
																																					10V	0603 R14	
																																				200V			
																																				100V			
																																				50V			
																																					25V	0805 R15	
																																					200V		
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																																					50V		
																																						25V	1206 R18
																																					200V		
																																					100V		
																																					50V		
																																						25V	1210 S41
																																					200V		
																																					100V		
																																					50V		
																																						25V	1812 S43
																																					200V		
																																					100V		
																																					50V		
																																						25V	

See Tanceram High Capacitance Series for values $\geq 1.0\mu\text{F}$

ELECTRICAL CHARACTERISTICS

Please refer to page 78 of the catalog or www.johansondielectrics.com

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