

# 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	█											█														
			100V	█											█														
			50V	█											█														
			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	█											█														



NP0  
X7R  
X5R

## HOW TO ORDER - SURFACE MOUNT MLCC

Part number written: 100R07W104KV4E

<b>100</b>	<b>R 07</b>	<b>W</b>	<b>104</b>	<b>K</b>	<b>V</b>	<b>4</b>	<b>E</b>
<b>VOLTAGE</b>	<b>SERIES/SIZE</b>	<b>DIELECTRIC</b>	<b>CAPACITANCE</b>	<b>TOLERANCE</b>	<b>TERMINATION</b>	<b>MARKING</b>	<b>PACKING</b>
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.

# SURFACE MOUNT MLCCs 10 - 200 VDC

<i>AVAILABLE CAPACITANCE CODE</i>																									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					
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																																						50V					
																																							25V	0805 R15			
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																																								50V	1206 R18		
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																																									50V		
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*See Tanceram High Capacitance Series for values ≥ 1.0μF*

## ELECTRICAL CHARACTERISTICS

Please refer to page 78 of the catalog or [www.johansondielectrics.com](http://www.johansondielectrics.com)

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[250R14X474KV4T](#) [101R14N101GV4T](#) [160R15X106KV4E](#) [500R07N470JV4T](#) [101R14W103KV4T](#) [101R14N8R2BV4T](#)  
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[500R07N330JV4T](#) [101R14N6R8BV4T](#) [101R14N2R7CV4T](#) [101R14N220GV4T](#) [160R07W473MV4T](#)  
[101R15N3R3BV4T](#) [101R14N820JV4T](#) [160R07W103KV4T](#) [500R07N120GV4T](#) [100R18W475KV4E](#)  
[500R14N220JV4T](#) [100R07W104KV4T](#) [101R15N0R5BV4T](#) [101R18W104KV4E](#) [101R14N560GV4T](#)  
[101R14W821KV4T](#) [101R14N471GV4T](#) [250R14W224KV4T](#) [250R07W103KV4T](#) [101R15N102GV4T](#)  
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[101R14N150GV4T](#) [100R07X105KV4T](#) [500R07N560JV4T](#) [500R07W103KV4T](#) [250R14W104KV4T](#)  
[500S41W105KV4E](#) [101R14N101JV4T](#) [500R18N101KV4T](#) [500R15W102KV4T](#) [101R14W471KV4T](#)  
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[500R18N1R0CV4T](#)