

# Johanson Dielectrics Product Line Change

January 6, 2022

Dear Valued Customer:

Johanson Dielectrics (JDI), due to market conditions, has decided to discontinue offering most of its low voltage surface mount Multi-Layer Ceramic Capacitors (MLCC). In general, the parts to be discontinued are characterized below

- All case sizes: 0201 (R05) through 1812 (S43)
- All voltages < 250V
- All Capacitance values < 1 $\mu$ F

The detailed part values can be viewed in the hyperlink: <https://www.johansondielectrics.com/surface-mount-mlc-capacitors>. Copies of the Product catalog pages are also attached to this email for your convenience.

**However, several of these parts are in critical applications that would require costly requalification and are not affected by this notification. JDI will continue to offer the following part numbers indefinitely.**

PART NUMBERS REMAINING IN PRODUCTION				
6R3R05X223KT4T	500R07N330JV4T	250R07W473KT4H	500R14N820JV4T	500R15N102FV4T
6R3R05X104KT4T	500R07N390JV4T	250R07W473KG4	500R14N101JV4T	500R15N102JV4T
6R3R05X224KT4T	500R07N470JV4T	250R07W473KG4B	500R14N121JV4T	500R15N152JV4T
6R3R05X224MT4T	500R07N560JV4T	250R07W473KG4W	101R14N181GV4T	500R15W332KV4T
500R07N0R1BT4T	500R07N680JV4T	100R07W104KV4T	500R14N181JV4T	500R15W392JV4T
500R07N0R3BT4T	500R07N820JV4T	160R07W104KT4T	101R14N681GV4R	500R15W472KV4T
500R07N1R0CV4T	250R07N101JT4T	160R07W104KV4T	500R14N102JV4T	500R15W472MG4W
500R07N1R2CV4T	500R07N101JV4T	250R07W104KT4H	500R14N102JV6T	500R15W103KV4T
500R07N1R8BV4T	500R07N221JV4T	250R07W104KV4T	500R14N272KT4H	101R15W103KV4T
500R07N1R8CV4T	500R07N271JV4T	100R07X104KV4T	500R14W471KG4	500R15W223KV4T
500R07N2R0CV4T	250R07N102JT4T	100R07X224KV4T	500R14W472KV4T	201R15W223KV6E
500R07N2R2CV4T	500R07W221JV4T	160R07X224KT4H	101R14W103KV4T	500R15W273MG4W
500R07N2R7CV4T	500R07W471JV4T	500R14N0R5BV4T	500R14W473KV4T	250R15W104JY4W
500R07N3R3CV4T	500R07W471KV4T	500R14N1R0AT4T	250R14W104KV4T	500R15W104JY4W
500R07N4R3CV4T	500R07W102JV4T	500R14N3R3CV4T	500R14W104KV4T	500R15W104KT6E
500R07N4R7CV4T	250R07W102KG4	500R14N100GT4T	250R14W224KT4T	500R18N330FV4T

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PART NUMBERS REMAINING IN PRODUCTION				
500R07N5R0CV4T	250R07W102KV4T	500R14N150GT6T	101R15N0R5BV4R	401R18N470KH4S-JL*D
500R07N6R8CV4T	500R07W102KV4T	500R14N150JV4T	500R15N100FV4T	500R18N102JV4T
500R07N8R2CV4T	500R07W332KV4T	500R14N220GV4T	500R15N100JV4T	500R18N223JV4E
500R07N8R2DV4T	500R07W472KV4T	500R14N220JV4T	500R15N220JV4T	500R18W102KV4T
500R07N100JV4T	160R07W103JV4T	500R14N270GT6T	500R15N330JV4T	401R18W122KH4S-JL*D-AA
500R07N120JV4T	160R07W103KT4T	500R14N270JV4T	500R15N470JV4T	201R18W473KV4E
500R07N150JV4T	160R07W103KV4T	500R14N330GV4T	500R15N560FV4T	500R18W823JV4T
500R07N180JV4T	250R07W103KV4T	500R14N330JV4T	101R15N680JV4T	500R18W104KT4E
500R07N200JV4T	500R07W103KV4T	500R14N390JV4T	500R15N101JV4T	500R18W104KF4E
500R07N220FV4T	160R07W223KT4T	500R14N470GT6T	500R15N121FV4T	500R18W104MG4W
500R07N220JV4T	160R07W223KV4T	500R14N470GV6T	500R15N181FV4T	500R18W104MV4T
500R07N270JV4T	160R07W473KV4T	500R14N470KT4T	500R15N221JV4T	250R18W224MV4T
		500R14N680JV4T	500R15N471JV4T	101S41W104KV4E

All parts that will be discontinued will have a **Last Time Buy of July 1, 2022**, with final shipments occurring by no later than December 23, 2022.

Please contact your Account Manager or me if you have any questions.

Sincerely,

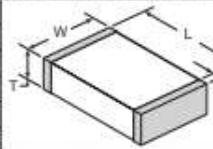
John Ricardi

VP Sales & Business Development

# Johanson Dielectrics Product Line Change

SURFACE MOUNT MLCCs 10 - 200 VDC 

CASE SIZE			Voltage	AVAILABLE CAPACITANCE CODE																									
JDI	Inches	(mm)		0105	X10X	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	25V	Blue												Green													
			16V	Blue												Green													
			10V	Blue												Green													
			50V	Blue												Green													
R07	0402	(1005) L .040 ±.004 W .020 ±.004 T .025 Max. EB .008 ±.004	25V	Blue												Green													
			16V	Blue												Green													
			10V	Blue												Green													
			50V	Blue												Green													
R14	0603	(1608) L .063 ±.008 W .032 ±.008 T .035 Max. EB .010 ±.005	200V	Blue												Green													
			100V	Blue												Green													
			50V	Blue												Green													
			25V	Blue												Green													
R15	0805	(2012) L .080 ±.010 W .050 ±.010 T .050 Max. EB .020 ±.010	200V	Blue												Green													
			100V	Blue												Green													
			50V	Blue												Green													
			25V	Blue												Green													
R18	1206	(3216) L .125 ±.010 W .062 ±.010 T .050 Max. EB .020 ±.010	200V	Blue												Green													
			100V	Blue												Green													
			50V	Blue												Green													
			25V	Blue												Green													
S41	1210	(3224) L .125 ±.010 W .095 ±.010 T .065 Max. EB .020 ±.010	200V	Blue												Green													
			100V	Blue												Green													
			50V	Blue												Green													
			25V	Blue												Green													
S43	1812	(4532) L .175 ±.010 W .125 ±.010 T .085 Max. EB .025 ±.015	200V	Blue												Green													
			100V	Blue												Green													
			50V	Blue												Green													
			25V	Blue												Green													



NPO  
X7R  
X5R

## HOW TO ORDER - SURFACE MOUNT MLCC

Part number written: 100R07W104KV4E

**100**  
VOLTAGE  
100 = 10 VDC  
160 = 16 VDC  
250 = 25 VDC  
500 = 50 VDC  
101 = 100 VDC  
201 = 200 VDC

**R 07**  
SERIES/SIZE  
R05 = 0201  
R07 = 0402  
R14 = 0603  
R15 = 0805  
R18 = 1206  
S41 = 1210  
S43 = 1812

**W**  
DIELECTRIC  
N = NPO  
W = X7R  
X = X5R

**104**  
CAPACITANCE  
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

**K**  
TOLERANCE  
\* 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**  
TERMINATION  
V = Nickel Barrier with 100% Tin Plating (Matte)  
T = SnPb

**4**  
MARKING  
3 = Special  
4 = Unmarked  
6 = EIA Code\*  
\*Not available on sizes < 0402

**E**  
PACKING  
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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SURFACE MOUNT MLCCs 10 - 200 VDC 

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					
																										NPO	25V	0201	
																											X7R	16V	R05
																											X5R	10V	
																												50V	
																												25V	0402
																												16V	R07
																												10V	
																												200V	
																												100V	0603
																												50V	R14
																												25V	
																												16V	
																												200V	
																												100V	0805
																												50V	R15
																												25V	
																												16V	
																												200V	
																												100V	1206
																												50V	R18
																												25V	
																												200V	
																												100V	1210
																												50V	S41
																												25V	
																												16V	
																												200V	
																												100V	1812
																												50V	S43
																												25V	

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

**ELECTRICAL CHARACTERISTICS**

Please refer to page 81 of the catalog or [www.johansondielectrics.com](http://www.johansondielectrics.com)