



AEC-Q200 Qualified Product List

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Never Short on Solutions

X8R/X8L Dielectric



X8R

X8L

SIZE		0603		0805		1206	
	WVDC	25V	50V	25V	50V	25V	50V
331	Cap 330	G	G	J	J		
471	(pF) 470	G	G	J	J		
681	680	G	G	J	J		
102	1000	G	G	J	J	J	J
152	1500	G	G	J	J	J	J
222	2200	G	G	J	J	J	J
332	3300	G	G	J	J	J	J
472	4700	G	G	J	J	J	J
682	6800	G	G	J	J	J	J
103	Cap 0.01	G	G	J	J	J	J
153	(µF) 0.015	G	G	J	J	J	J
223	0.022	G	G	J	J	J	J
333	0.033	G	G	J	J	J	J
473	0.047	G	G	J	J	J	J
683	0.068	G		N	N	M	M
104	0.1			N	N	M	M
154	0.15			N	N	M	M
224	0.22			N		M	M
334	0.33					M	M
474	0.47					M	
684	0.68						
105	1						
	WVDC	25V	50V	25V	50V	25V	50V
SIZE		0603		0805		1206	

SIZE		0603			0805			1206			
	WVDC	25V	50V	100V	25V	50V	100V	16V	25V	50V	100V
331	Cap 330		G	G		J	J				
471	(pF) 470		G	G		J	J				
681	680		G	G		J	J				
102	1000		G	G		J	J				
152	1500		G	G		J	J			J	J
222	2200		G	G		J	J			J	J
332	3300		G	G		J	J			J	J
472	4700		G	G		J	J			J	J
682	6800		G	G		J	J			J	J
103	Cap 0.01		G	G		J	J			J	J
153	(µF) 0.015	G	G		J	J	J			J	J
223	0.022	G	G		J	J	J			J	J
333	0.033	G	G		J	J	N			J	J
473	0.047	G	G		J	J	N			J	J
683	0.068	G	G		J	J				J	J
104	0.1	G	G		J	J				J	M
154	0.15				J	N		J	J	J	Q
224	0.22				N	N		J	J	J	Q
334	0.33				N			J	M	P	Q
474	0.47				N			M	M	P	
684	0.68							M			
105	1							M			
	WVDC	25V	50V	100V	25V	50V	100V	16V	25V	50V	100V
SIZE		0603			0805			1206			

Letter	A	C	E	G	J	K	M	N	P	Q	X	Y	Z
Max. Thickness	0.33 (0.013)	0.56 (0.022)	0.71 (0.028)	0.90 (0.035)	0.94 (0.037)	1.02 (0.040)	1.27 (0.050)	1.40 (0.055)	1.52 (0.060)	1.78 (0.070)	2.29 (0.090)	2.54 (0.100)	2.79 (0.110)
	PAPER					EMBOSSED							

 = AEC-Q200 Qualified



Automotive MLCC - NPO



Capacitance Range

	0603			0805			1206					1210				1812	
	25V	50V	100V	25V	50V	100V	25V	50V	100V	200V	500V	25V	50V	100V	200V	50V	100V
100 10pF	G	G	G	J	J	J	J	J	J	J	J						
120 12	G	G	G	J	J	J	J	J	J	J	J						
150 15	G	G	G	J	J	J	J	J	J	J	J						
180 18	G	G	G	J	J	J	J	J	J	J	J						
220 22	G	G	G	J	J	J	J	J	J	J	J						
270 27	G	G	G	J	J	J	J	J	J	J	J						
330 33	G	G	G	J	J	J	J	J	J	J	J						
390 39	G	G	G	J	J	J	J	J	J	J	J						
470 47	G	G	G	J	J	J	J	J	J	J	J						
510 51	G	G	G	J	J	J	J	J	J	J	J						
560 56	G	G	G	J	J	J	J	J	J	J	J						
680 68	G	G	G	J	J	J	J	J	J	J	J						
820 82	G	G	G	J	J	J	J	J	J	J	J						
101 100	G	G	G	J	J	J	J	J	J	J	J						
121 120	G	G	G	J	J	J	J	J	J	J	J						
151 150	G	G	G	J	J	J	J	J	J	J	J						
181 180	G	G	G	J	J	J	J	J	J	J	J						
221 220	G	G	G	J	J	J	J	J	J	J	J						
271 270	G	G	G	J	J	J	J	J	J	J	J						
331 330	G	G	G	J	J	J	J	J	J	J	J						
391 390	G	G		J	J	J	J	J	J	J	J						
471 470	G	G		J	J	J	J	J	J	J	J						
561 560				J	J	J	J	J	J	J	J						
681 680				J	J	J	J	J	J	J	J						
821 820				J	J	J	J	J	J	J	J						
102 1000				J	J	J	J	J	J	J	J	J	J	J			
122 1200							J	J	J	J	J	J	J	M	M		
152 1500							J	M	M	M	M	J	J	M	M		
182 1800							J	M	M	M	M	J	J	M	M		
222 2200							J	M	M	M	M	J	J	M	M		
272 2700							J	M	Q			J	J	M			
332 3300							J	M	Q			J	J	P		K	K
392 3900												J	J	P		K	K
472 4700												J	J	P		K	K
103 10nF																	
	25V	50V	100V	25V	50V	100V	25V	50V	100V	200V	500V	25V	50V	100V	200V	50V	100V
	0603			0805			1206					1210				1812	

Letter	A	C	E	G	J	K	M	N	P	Q	X	Y	Z
Max. Thickness	0.33 (0.013)	0.56 (0.022)	0.71 (0.028)	0.90 (0.035)	0.94 (0.037)	1.02 (0.040)	1.27 (0.050)	1.40 (0.055)	1.52 (0.060)	1.78 (0.070)	2.29 (0.090)	2.54 (0.100)	2.79 (0.110)
	PAPER					EMBOSSSED							

 = Under Development



Automotive MLCC-X7R



Capacitance Range

		0402			0603					0805					1206					1210				1812		2220			
		16V	25V	50V	16V	25V	50V	100V	200V	16V	25V	50V	100V	200V	16V	25V	50V	100V	200V	500V	16V	25V	50V	100V	50V	100V	25V	50V	
221	Cap .22																												
271	(nF) .27																												
331	.33																												
391	.39																												
471	.47																												
561	.56																												
681	.68																												
821	.82																												
102	1				G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K	K	K	
182	1.8				G	G	G	G		J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K	K	K	
222	2.2				G	G	G	G		J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K	K	K	
332	3.3				G	G	G	G		J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K	K	K	
472	4.7				G	G	G	G		J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K	K	K	
103	10				G	G	G	G		J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K	K	K	
123	12				G	G	G			J	J	J	M		J	J	J	J	J		K	K	K	K	K	K	K	K	
153	15				G	G	G			J	J	J	M		J	J	J	J	J		K	K	K	K	K	K	K	K	
183	18				G	G	G			J	J	J	M		J	J	J	J	J		K	K	K	K	K	K	K	K	
223	22				G	G	G			J	J	J	M		J	J	J	J	J		K	K	K	K	K	K	K	K	
273	27				G	G	G			J	J	J	M		J	J	J	J	J		K	K	K	K	K	K	K	K	
333	33				G	G	G			J	J	J	M		J	J	J	J	J		K	K	K	K	K	K	K	K	
473	47				G	G	G			J	J	J	M		J	J	J	M	J		K	K	K	K	K	K	K	K	
563	56				G	G	G			J	J	J	M		J	J	J	M	J		K	K	K	M	K	K	K	K	
683	68				G	G	G			J	J	J	M		J	J	J	M	J		K	K	K	M	K	K	K	K	
823	82				G	G	G			J	J	J	M		J	J	J	M	J		K	K	K	M	K	K	K	K	
104	100				G	G	G			J	J	M	M		J	J	J	M	J		K	K	K	M	K	K	K	K	
124	120									J	J	M			J	J	M	M			K	K	K	P	K	K	K	K	
154	150									M	N	M			J	J	M	M			K	K	K	P	K	K	K	K	
224	220									M	N	M			J	M	M	Q			M	M	M	P	M	M	M	M	
334	330									N	N	M			J	M	P	Q			P	P	P	Q	X	X	X	X	
474	470									N	N	M			M	M	P	Q			P	P	P	Q	X	X	X	X	
684	680									N	N				M	Q	Q	Q			P	P	Q	X	X	X	X	X	
105	Cap 1									N	N				M	Q	Q	Q			P	Q	Q	X	X	X	X	X	
155	(µF) 1.5														Q	Q					P	Q	Z	Z	X	X	X	X	
225	2.2														Q	Q					X	Z	Z	Z	Z	Z	Z	Z	
335	3.3																				X	Z	Z		Z				
475	4.7																				X	Z	Z		Z				
106	10																											Z	
226	22																											Z	
		16V	25V	50V	16V	25V	50V	100V	200V	16V	25V	50V	100V	200V	16V	25V	50V	100V	200V	500V	16V	25V	50V	100V	50V	100V	25V	50V	
		0402			0603					0805					1206					1210				1812		2220			

 = Under Development

Letter	A	C	E	G	J	K	M	N	P	Q	X	Y	Z
Max. Thickness	0.33 (0.013)	0.56 (0.022)	0.71 (0.028)	0.90 (0.035)	0.94 (0.037)	1.02 (0.040)	1.27 (0.050)	1.40 (0.055)	1.52 (0.060)	1.78 (0.070)	2.29 (0.090)	2.54 (0.100)	2.79 (0.110)
	PAPER					EMBOSSSED							




MLCC with FLEXITERM[®]



X8R Dielectric Capacitance Range

SIZE		0603		0805		1206	
	WVDC	25V	50V	25V	50V	25V	50V
271	Cap 270	G	G				
331	(pF) 330	G	G	J	J		
471	470	G	G	J	J		
681	680	G	G	J	J		
102	1000	G	G	J	J	J	J
152	1500	G	G	J	J	J	J
182	1800	G	G	J	J	J	J
222	2200	G	G	J	J	J	J
272	2700	G	G	J	J	J	J
332	3300	G	G	J	J	J	J
392	3900	G	G	J	J	J	J
472	4700	G	G	J	J	J	J
562	5600	G	G	J	J	J	J
682	6800	G	G	J	J	J	J
822	8200	G	G	J	J	J	J
103	Cap 0.01	G	G	J	J	J	J
123	(µF) 0.012	G	G	J	J	J	J
153	0.015	G	G	J	J	J	J
183	0.018	G	G	J	J	J	J
223	0.022	G	G	J	J	J	J
273	0.027	G	G	J	J	J	J
333	0.033	G	G	J	J	J	J
393	0.039	G	G	J	J	J	J
473	0.047	G	G	J	J	J	J
563	0.056	G		N	N	M	M
683	0.068	G		N	N	M	M
823	0.082			N	N	M	M
104	0.1			N	N	M	M
124	0.12			N	N	M	M
154	0.15			N	N	M	M
184	0.18			N	N	M	M
224	0.22			N		M	M
274	0.27					M	M
334	0.33					M	M
394	0.39					M	
474	0.47					M	
684	0.68						
824	0.82						
105	1						
SIZE	WVDC	25V	50V	25V	50V	25V	50V
		0603		0805		1206	

Letter	A	C	E	G	J	K	M	N	P	Q	X	Y	Z
Max. Thickness	0.33 (0.013)	0.56 (0.022)	0.71 (0.028)	0.90 (0.035)	0.94 (0.037)	1.02 (0.040)	1.27 (0.050)	1.40 (0.055)	1.52 (0.060)	1.78 (0.070)	2.29 (0.090)	2.54 (0.100)	2.79 (0.110)
	PAPER					EMBOSS							

 = AEC-Q200 Qualified



MLCC with FLEXITERM®



X7R Dielectric Capacitance Range

	0603					0805					1206					1210				1812				2220				
	16V	25V	50V	100V	200V	10V	16V	25V	50V	100V	200V	16V	25V	50V	100V	200V	16V	25V	50V	100V	16V	25V	50V	100V	25V	50V	100V	
101																												
121																												
151																												
181																												
221																												
271	J	J	J	J	J	J																						
331	J	J	J	J	J	J	J	J	J	J	J																	
391	J	J	J	J	J	J	J	J	J	J	J																	
471	J	J	J	J	J	J	J	J	J	J	J																	
561	J	J	J	J	J	J	J	J	J	J	J																	
681	J	J	J	J	J	J	J	J	J	J	J																	
821	J	J	J	J	J	J	J	J	J	J	J																	
102	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
122	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
152	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
182	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
222	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
272	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
332	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
392	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
472	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
562	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
682	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
822	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
103	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J													
123	J	J	J			J	J	J	J	M		J	J	J	J	J												
153	J	J	J			J	J	J	J	M		J	J	J	J	J												
183	J	J	J			J	J	J	J	M		J	J	J	J	J												
223	J	J	J			J	J	J	J	M		J	J	J	J	J												
273	J	J	J			J	J	J	J	M		J	J	J	J	J												
333	J	J	J			J	J	J	J	M		J	J	J	J	J												
393	J	J	J			J	J	J	J	M		J	J	J	M	J												
473	J	J	J			J	J	J	J	M		J	J	J	M	J												
563	J	J	J			J	J	J	J	N		J	J	J	M	J	K	K	K	M	K	K	K	K				
683	J	J	J			J	J	J	J	N		J	J	J	M	J	K	K	K	M	K	K	K	K				
823	J	J	J			J	J	J	J	N		J	J	J	P	J	K	K	K	M	K	K	K	K				
104	J	J	J			J	J	J	J	N		J	J	J	Q	J	K	K	K	P	K	K	K	K	X	X	X	
124						J	J	J	N	N		J	J	P	Q		K	K	K	Q	K	K	K	K				
154						M	M	N	N	N		J	J	P	Q		K	K	K	Q	K	K	K	M	X	X	X	
184						M	M	N	N	N		J	M	P	Q		M	M	M	Q	K	K	K	M				
224						M	M	N	N	N		J	M	P	Q		M	M	M	Q	M	M	M	X	X	X	X	
274						N	N	N	N	N		J	M	P	Q		P	P	P	Q	M	M	M	X				
334						N	N	N	N	N		J	M	P	Q		P	P	P	Q	M	M	M	X	X	X	X	
394						N	N	N	N	N		M	M	P	Q		P	P	P	Q	X	X	X	X				
474						N	N	N	N	N		M	M	P	Q		P	P	P	Q	X	X	X	X	X	X	X	
564						N	N	N				M	Q	Q	Q		P	Q	Q	Q	X	X	X	Z				
684						N	N	N				M	Q	Q	Q		P	X	X	X	X	X	X	Z	X	X	X	
824						N	N	N				M	Q	Q	Q		P	Z	Z	Z	X	X	X	Z				
105						N	N	N				M	Q	Q	Q		P	Z	Z	Z	X	X	X	Z	X	X	X	
155												Q	Q				P	Z	Z	Z			Z	Z	X	X	X	
185												Q	Q				Z	Z	Z	Z			Z	Z				
225												Q	Q				Z	Z	Z	Z			Z	Z	X	X	X	
335																	Z	Z	Z				Z					
475																	Z	Z	Z				Z					
106																									Z	Z		
226																									Z			
16V	25V	50V	100V	200V	10V	16V	25V	50V	100V	200V	16V	25V	50V	100V	200V	16V	25V	50V	100V	16V	25V	50V	100V	25V	50V	100V		
0603					0805					1206					1210				1812				2220					

Letter	A	C	E	G	J	K	M	N	P	Q	X	Y	Z
Max. Thickness	0.33 (0.013)	0.56 (0.022)	0.71 (0.028)	0.90 (0.035)	0.94 (0.037)	1.02 (0.040)	1.27 (0.050)	1.40 (0.055)	1.52 (0.060)	1.78 (0.070)	2.29 (0.090)	2.54 (0.100)	2.79 (0.110)
	PAPER					EMBOSSSED							



FLEXISAFE MLC Chips



FLEXISAFE X7R Range

Capacitance		0603				0805				1206			1210		
Code	nF	16	25	50	100	16	25	50	100	16	25	50	16	25	50
102	1	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
182	1.8	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
222	2.2	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
332	3.3	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
472	4.7	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
103	10	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
123	12	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
153	15	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
183	18	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
223	22	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
273	27	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
333	33	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
473	47	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
563	56	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
683	68	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
823	82	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
104	100	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
124	120	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified			
154	150	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified
224	220	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified
334	330	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified
474	470	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified	Qualified

Qualified
 In Qualification

Not RoHS Compliant



For RoHS compliant products, please select correct termination style.



Automotive Capacitor Array (IPC)



NP0/COG												
SIZE	0405		0508		0508				0612			
No. of Elements	2	2	4				4					
WVDC	50	50	16	25	50	100	16	25	50	100		
1R0 Cap 1.0												
1R2 1.2 (pF)												
1R5 1.5												
1R8 1.8												
2R2 2.2												
2R7 2.7												
3R3 3.3												
3R9 3.9												
4R7 4.7												
5R6 5.6												
6R8 6.8												
8R2 8.2												
10												
12												
15												
18												
22												
27												
33												
39												
47												
56												
68												
82												
100												
120												
150												
180												
220												
270												
330												
390												
470												
560												
680												
820												
101												
121												
151												
181												
221												
271												
331												
391												
471												
561												
681												
821												
102												
122												
152												
182												
222												
272												
332												
392												
472												
562												
682												
822												
103												
123												
153												
183												
223												
273												
333												
393												
473												
563												
683												
823												
104												
124												
154												
224												

= NP0/COG
 = Under development

X7R															X8R
SIZE	0508				0508				0612				0405		
No. of Elements	2				4				4				2		
WVDC	16	25	50	100	16	25	50	100	10	16	25	50	100	16	
101 Cap 100															
121 120 (pF)															
151 150															
181 180															
221 220															
271 270															
331 330															
391 390															
471 470															
561 560															
681 680															
821 820															
102 1000															
122 1200															
152 1500															
182 1800															
222 2200															
272 2700															
332 3300															
392 3900															
472 4700															
562 5600															
682 6800															
822 8200															
103 Cap 0.010															
123 0.012 (μF)															
153 0.015															
183 0.018															
223 0.022															
273 0.027															
333 0.033															
393 0.039															
473 0.047															
563 0.056															
683 0.068															
823 0.082															
104 0.10															
124 0.12															
154 0.15															
224 0.22															

= X7R
 = X8R
 = Under development

Not RoHS Compliant



For RoHS compliant products, please select correct termination style.

