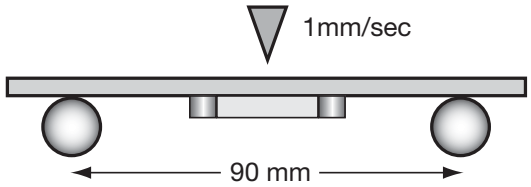
FLEXITERM® FEATURES

a) Bend Test
The capacitor is soldered to the PC Board as shown:



Typical bend test results are shown below:

Style	Conventional Term	Soft Term
0603	>2mm	>5
0805	>2mm	>5
1206	>2mm	>5

b) Temperature Cycle testing
FLEXITERM® has the ability to withstand at least 1000 cycles between –55°C and +125°C

Automotive MLCC - NP0

Capacitance Range

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

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							

Automotive MLCC - X7R

Capacitance Range

		0402			0603							0805						1206							1210				1812		2220		
Soldering		Reflow/Wave			Reflow/Wave							Reflow/Wave						Reflow/Wave							Reflow Only				Reflow Only		Reflow Only		
		16V	25V	50V	10V	16V	25V	50V	100V	200V	250V	16V	25V	50V	100V	200V	250V	16V	25V	50V	100V	200V	250V	500V	16V	25V	50V	100V	50V	100V	25V	50V	100V
221	Cap 220	C	C	C																													
271	(pF) 270	C	C	C																													
331	330	C	C	C																													
391	390	C	C	C																													
471	470	C	C	C																													
561	560	C	C	C																													
681	680	C	C	C																													
821	820	C	C	C																													
102	1000	C	C	C		G	G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K			
182	1800	C	C	C		G	G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K			
222	2200	C	C	C		G	G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K			
332	3300	C	C	C		G	G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K			
472	4700	C	C	C		G	G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K			
103	Cap 0.01	C				G	G	G	G	G	G	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	K	K	K	K			
123	(µF) 0.012	C				G	G	G				J	J	J	M	J	J	J	J	J	J	J	J		K	K	K	K	K	K			
153	0.015	C				G	G	G				J	J	J	M	J	J	J	J	J	J	J	J		K	K	K	K	K	K			
183	0.018	C				G	G	G				J	J	J	M	J	J	J	J	J	J	J	J		K	K	K	K	K	K			
223	0.022	C				G	G	G				J	J	J	M	J	J	J	J	J	J	J	J		K	K	K	K	K	K			
273	0.027	C				G	G	G				J	J	J	M	J	J	J	J	J	J	J	J		K	K	K	K	K	K			
333	0.033	C				G	G	G				J	J	J	M	J	J	J	J	J	J	J	J		K	K	K	K	K	K			
473	0.047					G	G	G				J	J	J	M	J	J	J	J	J	M	J	J		K	K	K	K	K	K			
563	0.056					G	G	G				J	J	J	M			J	J	J	M	J	J		K	K	K	M	K	K			
683	0.068					G	G	G				J	J	J	M			J	J	J	M	J	J		K	K	K	M	K	K			
823	0.082					G	G	G				J	J	J	M			J	J	J	M	J	J		K	K	K	M	K	K			
104	0.01					G	G	G				J	J	M	M			J	J	J	M	J	J		K	K	K	M	K	K			
124	0.12											J	J	M	N			J	J	M	M				K	K	K	P	K	K			
154	0.15											M	N	M	N			J	J	M	M				K	K	K	P	K	K			
224	0.22				G							M	N	M	N			J	M	M	Q				M	M	M	P	M	M			
334	0.33											N	N	M	N			J	M	P	Q				P	P	P	Q	X	X			
474	0.47											N	N	M	N			M	M	P	Q				P	P	P	Q	X	X			
684	0.68											N	N	N				M	Q	Q	Q				P	P	Q	X	X	X			
105	1											N	N	N				M	Q	Q	Q				P	Q	Q	X	X	X			
155	1.5																	Q	Q	Q					P	Q	Z	Z	X	X			
225	2.2																	Q	Q	Q					X	Z	Z	Z	Z	Z			
335	3.3																	Q	Q						X	Z	Z	Z	Z				
475	4.7																	Q	Q						X	Z	Z	Z	Z				Z
106	10																								Z	Z						Z	Z
226	22																														Z		
		16V	25V	50V	10V	16V	25V	50V	100V	200V	250V	16V	25V	50V	100V	200V	250V	16V	25V	50V	100V	200V	250V	500V	16V	25V	50V	100V	50V	100V	25V	50V	100V
		0402			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					EMBOSSED							

Automotive MLCC - X8R

Capacitance Range

SIZE		0603		0805		1206	
Soldering		Reflow/Wave		Reflow/Wave		Reflow/Wave	
	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		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						
	WVDC	25V	50V	25V	50V	25V	50V
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							