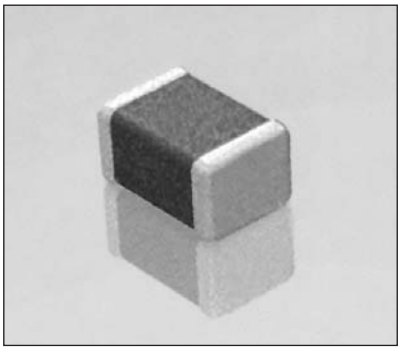
MLCC Tin/Lead Termination “B”

General Specifications



AVX Corporation will support those customers for commercial and military Multilayer Ceramic Capacitors with a termination consisting of 5% minimum lead. This termination is indicated by the use of a “B” in the 12th position of the AVX Catalog Part Number. This fulfills AVX’s commitment to providing a full range of products to our customers. AVX has provided in the following pages a full range of values that we are currently offering in this special “B” termination. Please contact the factory if you require additional information on our MLCC Tin/Lead Termination “B” products.

Check for up-to-date CV Tables at
http://www.avxcorp.com/docs/Catalogs/tinterm.pdf

HOW TO ORDER

LD05

Size
LD02 - 0402
LD03 - 0603
LD04 - 0504
LD05 - 0805
LD06 - 1206
LD08 - 1808*
LD10 - 1210
LD12 - 1812
LD13 - 1825
LD14 - 2225
LD15 - 0204 LICC*
LD16 - 0306 LICC
LD17 - 0508 LICC
LD18 - 0612 LICC

*Contact factory

5

Voltage
6.3V = 6
10V = Z
16V = Y
25V = 3
50V = 5
100V = 1
200V = 2

A

Dielectric
C0G (NP0) = A
X7R = C
X5R = D

101

Capacitance Code (In pF)
2 Sig. Digits + Number of Zeros

J

Capacitance Tolerance
B = ±.10 pF (<10pF)
C = ±.25 pF (<10pF)
D = ±.50 pF (<10pF)
F = ±1% (≥ 10 pF)
G = ±2% (≥ 10 pF)
J = ±5%
K = ±10%

A

Failure Rate
A = Not Applicable

B

Terminations
B = 5% min lead

2

Packaging
2 = 7" Reel
4 = 13" Reel
7 = Bulk Cass.
9 = Bulk

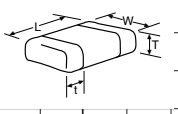
Contact Factory For Multiples

A

Special Code
A = Std. Product

NP0 Dielectric

SIZE	LD02			LD03				LD05					LD06					LD10				LD12				LD13			LD14		
Cap (pF) WVDC	16	25	50	6.3	25	50	100	16	25	50	100	200	16	25	50	100	200	25	50	100	200	25	50	100	200	50	100	200	50	100	200
0.5	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
1.0	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
1.2	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
1.5	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
1.8	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
2.2	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
2.7	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
3.3	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
3.9	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
4.7	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
5.6	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
6.8	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
8.2	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
10	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
12	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
15	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
18	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
22	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
27	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
33	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
39	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
47	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
56	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
68	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
82	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
100	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
120	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
150	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
180	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
220	C	C	C	G	G	G	G	E	E	E	E	J	J	J	J	J	J														
270	C			G	G	G	G	E	E	E	J	M	J	J	J	J	J														
330	C			G	G	G	G	E	E	E	J	M	J	J	J	J	J														
390				G	G	G		J	J	J	J	M	J	J	J	J	J														
470				G	G	G		J	J	J	J	M	J	J	J	J	J														
560				G	G	G		J	J	J	J		J	J	J	J	J	J	J	J	J										
680				G	G	G		J	J	J	J		J	J	J	J	J	J	J	J	J										
820				G	G	G		J	J	J	J		J	J	J	J	M	J	J	J	J										
1000				G	G	G		J	J	J	J		J	J	J	J	Q	J	J	J	J	K	K	K	K	M	M	M	P	P	P
1200								J	J	J			J	J	J	J	Q	J	J	J	M	K	K	K	K	M	M	M	P	P	P
1500								J	J	J			J	J	J	M	Q	J	J	J	M	K	K	K	K	M	M	M	P	P	P
1800								J	J	J			J	J	M	M		J	J	J	M	K	K	K	K	M	M	M	P	P	P
2200								J	J	M			J	J	M	P		J	J	M	Q	K	K	K	K	M	M	M	P	P	P
2700								J	J	M			J	J	M	P		J	J	M	Q	K	K	K	P	M	M	M	P	P	P
3300								N	N	M			J	J	M	P		J	J	M		K	K	K	P	M	M	M	P	P	P
3900								N	N	M			J	J	M	P		J	J	M		K	K	K	P	M	M	M	P	P	P
4700								N	N				J	J	M	P		J	J	M		K	K	K	P	M	M	M	P	P	P
5600								N	N				J	J	M			J	J	M		K	M	M	P	M	M	M	P	P	P
6800								N					M	M				J	J			K	M	M	X	M	M	M	P	P	P
8200								N					M	M				J	J			K	P	X	X	M	M		P	P	P
Cap (µF) 0.010								N					M	M				N	N			K	P	X	X	M	M		P	P	P
0.012													M	M				N	N			K	P			M	M		P	P	P
0.015													M	M								M	P			P	M		P	P	Y
0.018																						M	P			P	M		P	P	Y
0.022																						M	P			P			P	Y	Y
0.027																						M							P	Y	Y
0.033																						M							P	Y	Z
0.039																													P	Y	Z
0.047																													P		
0.068																													P		
0.082																															
0.10																															
WVDC	16	25	50	6.3	25	50	100	16	25	50	100	200	16	25	50	100	200	25	50	100	200	25	50	100	200	50	100	200	50	100	200
SIZE	0402			0603				0805					1206					1210				1812				1825			2225		



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)	0.86 (0.034)	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							

X7R Dielectric

SIZE		LD02					LD03							LD05						LD06						LD10					LD12		LD13		LD14	
	WVDC	6.3	10	16	25	50	6.3	10	16	25	50	100	200	10	16	25	50	100	200	10	16	25	50	100	200	10	16	25	50	100	50	100	50	100	50	100
Cap	100	C	C	C	C	C																														
(pF)	120	C	C	C	C	C																														
	150	C	C	C	C	C																														
	180	C	C	C	C	C	G	G	G	G	G	G	G																							
	220	C	C	C	C	C	G	G	G	G	G	G	G																							
	270	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	330	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	390	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	470	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	560	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	680	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	820	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E																	
	1000	C	C	C	C	C	G	G	G	G	G	G	G	E	E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J						
	1200	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	1500	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	1800	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	2200	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	2700	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	3300	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	3900	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J						
	4700	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J	J						
	5600	C	C	C	C	C	G	G	G	G	G	G		E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J	J						
	6800	C	C	C	C		G	G	G	G	G	G		E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J	J						
	8200	C	C	C	C		G	G	G	G	G	G		E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J	J						
Cap	0.010	C	C	C			G	G	G	G	G	G		E	E	E	E	J	J	J	J	J	J	J	J	J	J	J	J	J	K	K	M	M	M	M
(µF)	0.012	C	C	C			G	G	G	G	G	G		J	J	J	J	J	J	J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.015	C	C	C			G	G	G	G	G			J	J	J	J	J	J	J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.018	C	C	C			G	G	G	G	G			J	J	J	J	J	M	J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.022	C	C	C			G	G	G	G	G			J	J	J	J	J	M	J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.027	C	C				G	G	G	G	G			J	J	J	J	J		J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.033	C	C				G	G	G	G	G			J	J	J	J	M		J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.039	C	C				G	G	G	G	G			J	J	J	J	M		J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.047						G	G	G	G				J	J	J	J	M		J	J	J	J	J	M	J	J	J	J	J	K	K	M	M	M	M
	0.056						G	G	G					J	J	J	J			J	J	J	J	J	P	J	J	J	J	J	K	K	M	M	M	M
	0.068						G	G	G					J	J	J	J			J	J	J	J	J	P	J	J	J	J	J	K	K	M	M	M	M
	0.082						G	G	G					J	J	J	J			J	J	J	J	M		J	J	J	J	J	K	K	M	M	M	M
	0.10						G	G	G					J	J	J	J			J	J	J	J	M		J	J	J	J	J	K	K	M	M	M	M
	0.12						G	G						J	J	J	M			J	J	J	J			J	J	J	J	M	K	K	M	M	M	M
	0.15						G	G						J	J	J				J	J	J	J			J	J	J	J	M	K	K	M	M	M	M
	0.18						G	G						J	J	M				J	J	J	J			J	J	J	J	P	K	K	M	M	M	M
	0.22						G	G						J	J	M				J	J	J	J			J	J	J	J	P	K	K	M	M	M	M
	0.27													M	M					J	J	J	M			J	J	J	J		K	M	M	M	M	M
	0.33													M	M					J	J	M	M			J	J	J	J		K	M	M	M	M	M
	0.47													N	M					M	M	M				M	M	M	M		K	P	M	M	M	M
	0.56													N						M	M	Q				M	M	M			M	Q	M		M	M
	0.68													N						M	M					M	M	P			M	Q	M		M	M
	0.82													N						M	M					M	M	P			M		M		M	M
	1.0													N						M	M					N	N				M		M		M	M
	1.2																																			
	1.5																			P						N	N						M		M	P
	1.8																																			
	2.2																			Q															M	
	3.3																																			
	4.7																																			
	10																																			
	22																																			
	47																																			
	100																																			
	WVDC	6.3	10	16	25	50	6.3	10	16	25	50	100	200	10	16	25	50	100	200	10	16	25	50	100	200	10	16	25	50	100	50	100	50	100	50	100
SIZE		0402					0603							0805						1206						1210					1812		1825		2225	

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)	0.86 (0.034)	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							

X5R Dielectric

SIZE		LD02		LD03		LD05		LD06			LD10
	WVDC	6.3	10	6.3	25	10	16	10	16	25	16
Cap	100										
(pF)	150										
	220										
	330										
	470										
	680										
	1000										
	1200										
	1500										
	1800										
	2200										
	2700										
	3300										
	3900										
	4700										
	5600										
	6800										
	8200										
Cap	0.010										
(µF	0.012										
	0.015										
	0.018										
	0.022										
	0.027										
	0.033										
	0.039										
	0.047		C								
	0.056										
	0.068		C		G						
	0.082										
	0.10	C	C		G						
	0.12										
	0.15										
	0.18										
	0.22										
	0.27			G							
	0.33			G			N				
	0.47			G			N				
	0.56										
	0.68			G			N			M	
	0.82										
	1.0			G		N	N			Q	
	1.2										
	1.5					N			Q		
	1.8										
	2.2					N			Q		
	3.3							Q			
	4.7							Q			Q
	6.8										
	10										
	22										
	47										
	100										
	WVDC	6.3	10	6.3	25	10	16	10	16	25	16
SIZE		0402		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)	0.86 (0.034)	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							