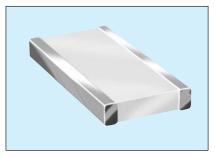
Low Inductance Capacitors (SnPb)

LICC 0612/0508/0306 X7R & X5R Dielectric





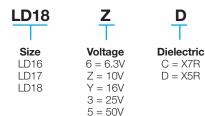
The total inductance of a chip capacitor is determined both by its length to width ratio and by the mutual inductance coupling between its electrodes.

Thus a 1210 chip size has a lower inductance than a 1206 chip. This design improvement is the basis of AVX's Low Inductance Chip Capacitors (LICC), where the electrodes are terminated on the long side of the chip instead of the short side. The 1206 becomes an 0612, in the same manner, an 0805 becomes an 0508, an 0603 becomes an 0306. This results in a reduction in inductance from the 1nH range found in normal chip capacitors to less than 0.2nH for LICCs. Their low profile is also ideal for surface mounting (both on the PCB and on IC package) or inside cavity mounting on the IC itself.





HOW TO ORDER





Thickness
Thickness
mm (in)
0.56 (0.022)
0.61 (0.024)
0.76 (0.030)
1.02 (0.040)
1.27 (0.050)

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

SI	ZE			LD16					LD17					LD18		
Soldering		Reflow Only				Reflow Only				Reflow/Wave						
Pack	aging	All Paper			All Paper				Paper/Embossed							
(L) Length	MM (in.)	0.81 ± 0.15 (0.032 \pm 0.006)			1.27 ± 0.25 (0.050 ± 0.010)				1.60 ± 0.25 (0.063 ± 0.010)							
(W) Width	MM (in.)	1.60 ± 0.15 (0.063 ± 0.006)			2.00 ± 0.25 (0.080 ± 0.010)				3.20 ± 0.25 (0.126 ± 0.010)							
	WVDC	6.3	10	16	25	50	6.3	10	16	25	50	6.3	10	16	25	50
Cap	1000	Α	Α	Α	Α		S	S	S	S	V	S	S	S	S	V
(pF)	2200	Α	Α	Α	Α		S	S	S	S	V	S	S	S	S	V
	4700	Α	Α	Α	Α		S	S	S	S	V	S	S	S	S	V
Cap	0.010	А	Α	Α	А		S	S	S	S	V	S	S	S	S	V
(µF)	0.015	А	Α	Α	Α		S	S	S	S	V	S	S	S	S	W
	0.022	А	Α	Α	Α		S	S	S	S	V	S	S	S	S	W
	0.047	А	Α	Α			S	S	S	V	А	S	S	S	S	W
	0.068	А	Α	Α			S	S	S	А	А	S	S	S	V	W
	0.10	А	Α	///K///			S	S	V	А	А	S	S	S	V	W
	0.15	Α	Α				S	S	V			S	S	S	W	W
	0.22	А	А				S	S	A			S	S	V		
	0.47						V	V	///\\			S	S	V		
	0.68						A	Α				V	V	W		
	1.0						A	А				V	V	А		
	1.5											W	W			
	2.2											A	A	l		
	3.3											///\\///				
-	4.7															
	10															
	WVDC	6.3	10	16	25	50	6.3	10	16	25	50	6.3	10	16	25	50
SIZE 0306				0508				0612								

	0306		0508	0612			
Code	Thickness	Code	Thickness	Code	Thickness		
Α	0.61 (0.024)	S	0.56 (0.022)	S	0.56 (0.022)		
		V	0.76 (0.030)	٧	0.76 (0.030)		
		Α	1.02 (0.040)	W	1.02 (0.040)		
				Α	1.27 (0.050)		

Solid = X7R	= X5R
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