

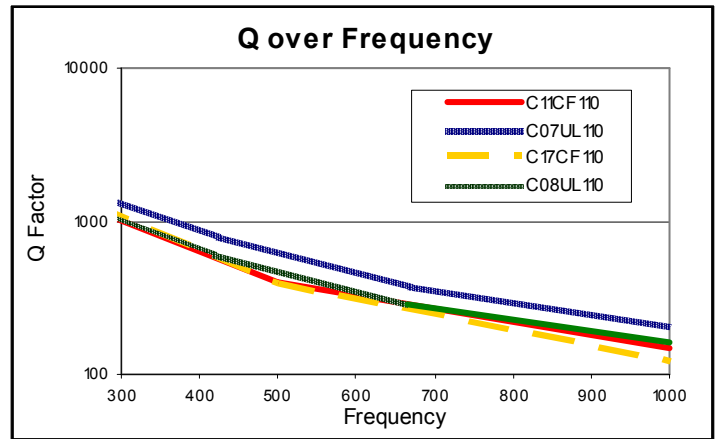
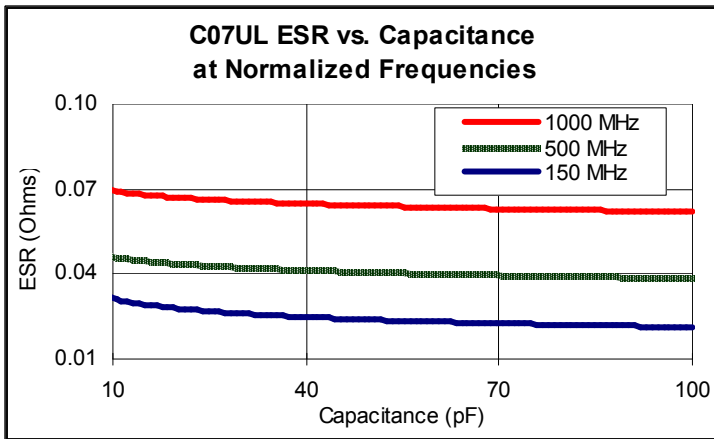


# An Ultra-Low ESR MLC in an 0711 Case Size Utilizing DLI's World Class UL Material System

## C07UL for Power Amplifier Applications

*DLI has expanded the best-in-class UL material line-up to include the new C07 case size.*

The highly efficient construction of the C07 case size, due to its uncommonly low aspect ratio and proprietary internal design, combines perfectly with DLI's ultra-low ESR UL material system to minimize losses through heat generation. Designed specifically for power amplifier applications, our new C07UL is suited for high power applications in the sub-three gigahertz frequency range. In output power matching applications, the low ESR and high Q of the C07UL leads to reduced temperature rise under power. The  $0\pm 30$  ppm/ $^{\circ}$ C temperature coefficient of capacitance ensures stable performance across a wide temperature range.



CAP CODE	CAP (pF)	Tol.	Rated WVDC	CAP CODE	CAP (pF)	Tol.	Rated WVDC	CAP CODE	CAP (pF)	Tol.	Rated WVDC	CAP CODE	CAP (pF)	Tol.	Rated WVDC
0R5	0.5	A B C D	500	1R8	1.8	A B C D	500	5R1	5.1	A B C D	500	180	18	F G J K	500
0R6	0.6			1R9	1.9			5R6	5.6			200	20		
0R7	0.7			2R0	2			6R2	6.2			220	22		
0R8	0.8			2R1	2.1			6R8	6.8			240	24		
0R9	0.9			2R2	2.2			7R5	7.5			270	27		
1R0	1			2R4	2.4			8R2	8.2			300	30		
1R1	1.1			2R7	2.7			9R1	9.1			330	33		
1R2	1.2			3R0	3			100	10			360	36		
1R3	1.3			3R3	3.3			110	11			390	39		
1R4	1.4			3R6	3.6			120	12			430	43		
1R5	1.5			3R9	3.9			130	13	470	47				
1R6	1.6			4R3	4.3			150	15	500	50				
1R7	1.7			4R7	4.7			160	16						

### C07UL Specifications

Length - 0.070", Width - 0.105", Thickness - 0.090" max • Operating Range from  $-55^{\circ}$ C to  $+125^{\circ}$ C  
 Terminations - Ni/Sn (RoHS) or Ni/SnPb • Dissipation Factor - 0.05% max  
 Insulation Resistance -  $10^5$  Meg $\Omega$  min @  $+25^{\circ}$ C and  $10^4$  Meg $\Omega$  min @  $+125^{\circ}$ C at Rated Voltage

*Ask us!* We are the tight tolerance, custom requirement specialists!

**Dielectric Laboratories Inc.**

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