

UL Series: Ultra Low ESR Ceramic Capacitors

Description Functional Applications Benefits

Ceramic Capacitors
NPO
Low ESR, High Q
Capacitance
Range 0.2 - 2200 pF
High Working Voltage
Low Noise

DC Blocking
Amplifier Matching Networks
VCO Frequency Stabilization
Filtering, Diplexers & Antenna
High RF Power Circuits
Bypass
Coupling
Tuning & Feedback
Broadcast Power Amps

High Q
Stable TC, -55° to +125°C Operating Range
EIA 0603 & 0805 Case Size
SMD Compatibility
Oscillators
Timing Circuits
Filters
RF Power Amplifiers
& Delay Lines
Ultra Low ESR



Dielectric Characteristics

Dielectric Material Code	Temperature Coefficient (ppm/°C Maximum)	Dissipation Factor (% @ 1MHz Maximum)	Dielectric Withstanding Voltage		Insulation Resistance (MΩ Minimum)		Aging	Piezoelectric Effects	Dielectric Absorption
			Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C			
UL	0 ± 30	0.05	Please see chart (pg. 25)	250% of WVDC for 5 sec unless specified in chart (pg. 25)	10 ⁵	10 ⁴	None	None	None

Part Number Breakdown*

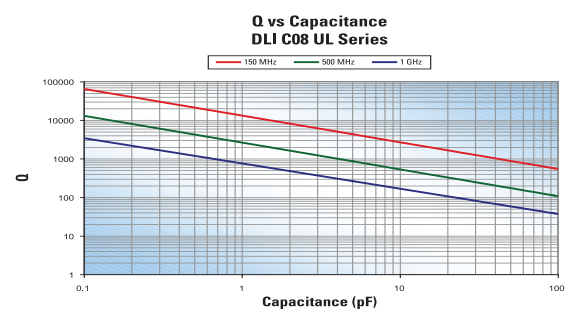
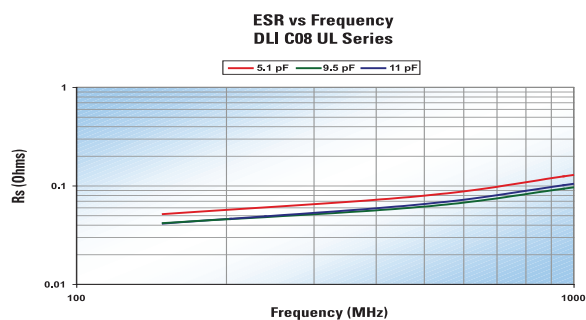
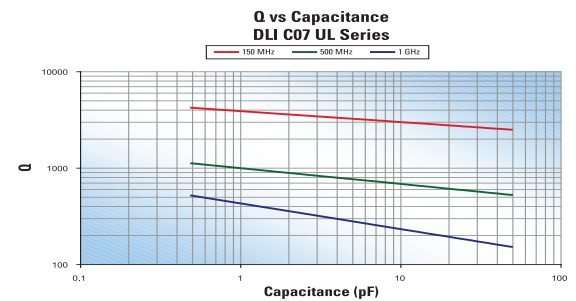
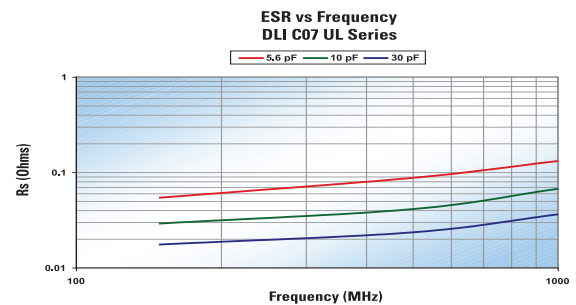
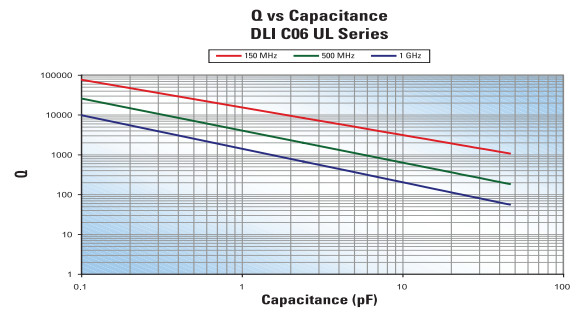
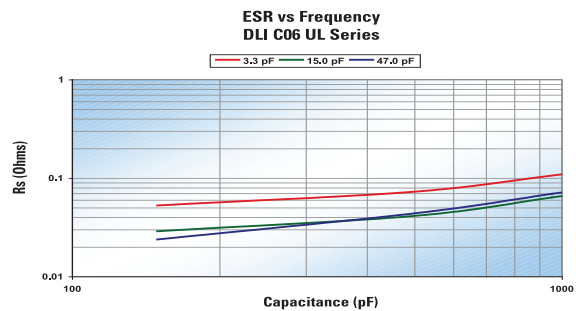
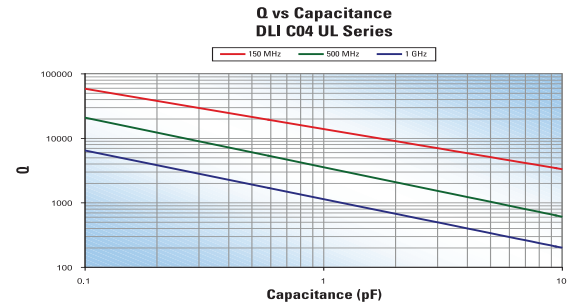
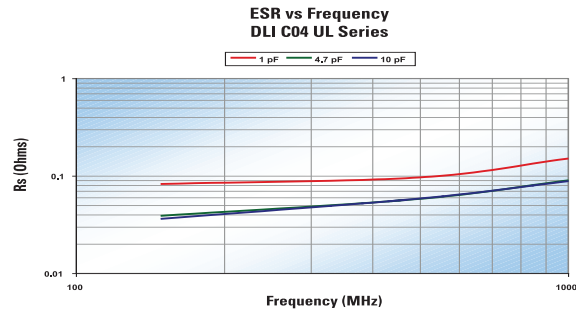
*See page 6 for complete part number system.

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Capacitance and Voltage Table

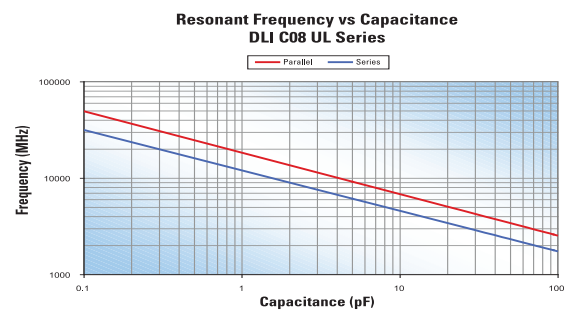
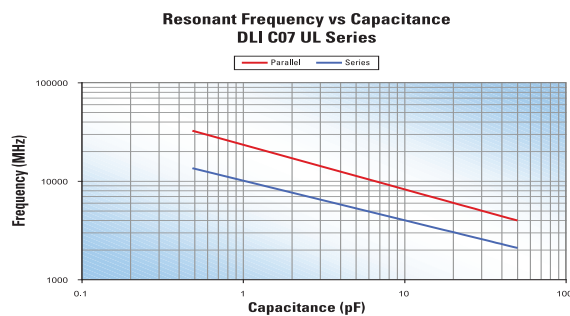
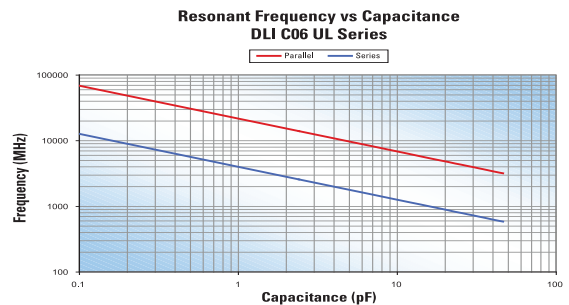
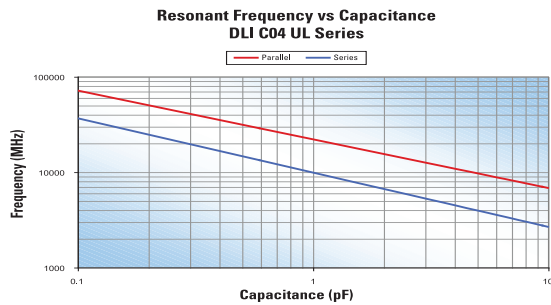
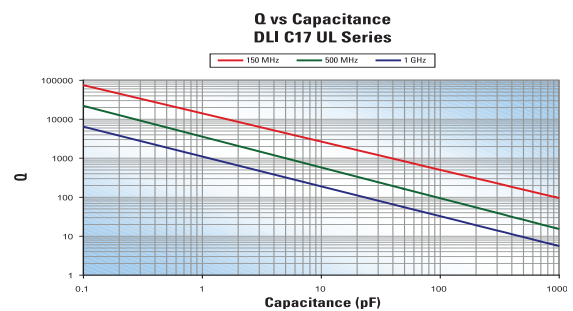
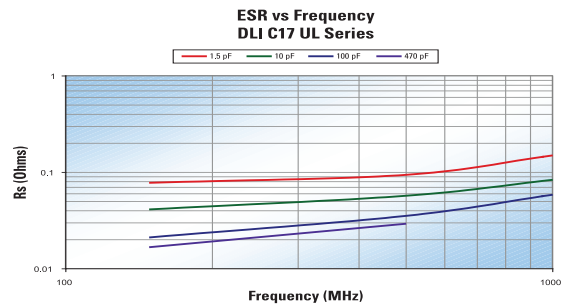
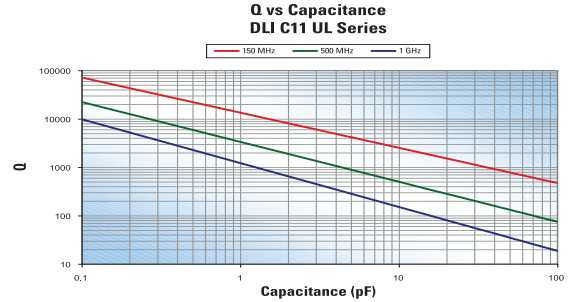
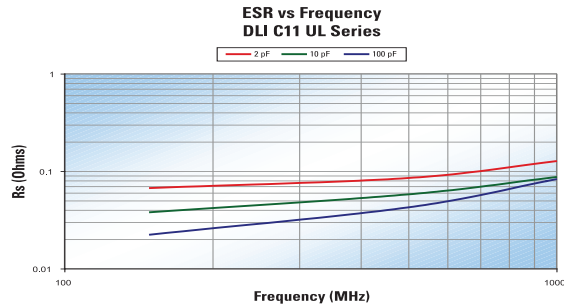
CAP CODE	CAP (pF)	CASE SIZE C04 0402	CASE SIZE C06 0603	CASE SIZE C07 0711	CASE SIZE C08 0805	CASE SIZE C11 0505	CASE SIZE C17 1111
0R1	0.1	200V Code 6 DWV = 500V	250V Code 9 DWV = 625V	500V Code 4 DWV = 1250V	250V Code 9 DWV = 625V	1000V Code 7 DWV = 625V	1000V Code 7 DWV = 625V
0R2	0.2						
0R3	0.3						
0R4	0.4						
0R5	0.5						
0R6	0.6						
0R7	0.7						
0R8	0.8						
0R9	0.9						
1R0	1.0						
1R1	1.1						
1R2	1.2						
1R3	1.3						
1R4	1.4						
1R5	1.5						
1R6	1.6						
1R7	1.7						
1R8	1.8						
1R9	1.9						
2R0	2.0						
2R1	2.1						
2R2	2.2						
2R4	2.4						
2R7	2.7						
3R0	3.0						
3R3	3.3						
3R6	3.6						
3R9	3.9						
4R3	4.3						
4R7	4.7						
5R1	5.1						
5R6	5.6						
6R2	6.2						
6R8	6.8						
7R5	7.5						
8R2	8.2						
9R1	9.1						
100	10						
110	11						
120	12						
130	13						
150	15						
160	16						
180	18						
200	20						
220	22						
240	24						
270	27						
300	30						
330	33						
360	36						

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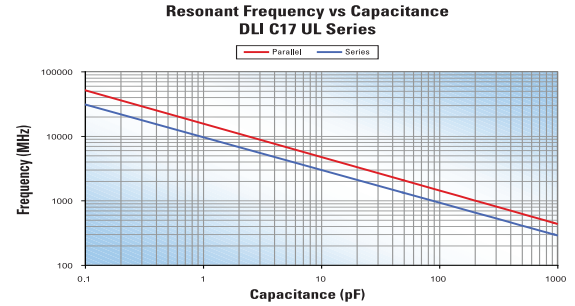
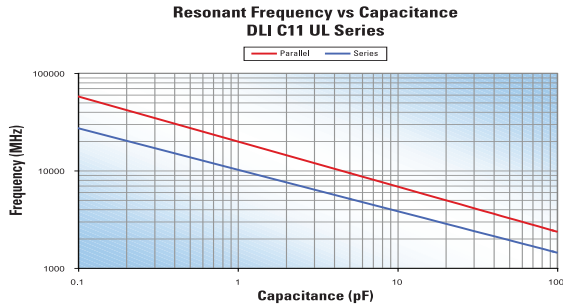
The information above represents typical device performance.

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