

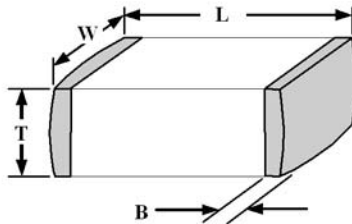
FUNCTIONAL APPLICATIONS

DC Blocking
Amplifier Matching Networks
VCO Frequency Stabilization
Filtering, Diplexers, Antenna Matching
High RF Power Circuits

BENEFITS

High Q
Stable TC
EIA 0805 Case Size
SMD Compatibility
-55 to +125 °C Operating Range

Mechanical Specifications



Product Code	Body Dimensions			Termination Code, Band Dimension and Material		
	Length (L)	Width (W)	Thickness (T)	Code	Band (B)	Material
C08	.080" ± .012" (2.0 ± 0.3)	.050" ± .008" (1.27 ± 0.2)	max .051" (max 1.3)	Z	.0005-.003" (0.13 - 0.75)	Ni Barrier, Tin Plate
				S		Ni Barrier, Au Flash
				P		AgPd Termination

Laser Markings available in Horizontal orientation only, Code L.
The MS material system is available in Z termination only.

Capacitance Table

C08 High Q Capacitance Values

C08 High Q Capacitance Values															
CAP CODE	CAP (pF)	Cap Tol.	Rated WVDC	CAP CODE	CAP (pF)	Cap Tol.	Rated WVDC	CAP CODE	CAP (pF)	Cap Tol.	Rated WVDC	CAP CODE	CAP (pF)	Cap Tol.	Rated WVDC
0R1	0.1	A B C D	250V Code 9	1R7	1.7	A B C D	250V Code 9	8R2	8.2	F G J K M	250V Code 9	470	47	F G J K M	250V Code 9
0R2	0.2			1R8	1.8			9R1	9.1			510	51		
R25	0.25			1R9	1.9			100	10			560	56		
0R3	0.3			2R0	2.0			110	11			620	62		
R35	0.35			2R1	2.1			120	12			680	68		
0R4	0.4			2R2	2.2			130	13			750	75		
R45	0.45			2R4	2.4			150	15			820	82		
0R5	0.5			2R7	2.7			160	16			910	91		
0R6	0.6			3R0	3.0			180	18			101	100		
0R7	0.7			3R3	3.3			200	20			121	120		
0R8	0.8			3R6	3.6			220	22			151	150		
0R9	0.9			3R9	3.9			240	24			181	180		
1R0	1.0			4R3	4.3			270	27			221	220		150V Code 8
1R2	1.2			4R7	4.7			300	30			271	270		100V Code 1
1R3	1.3			5R1	5.1			330	33			331	330		50V Code 5
1R4	1.4			5R6	5.6			360	36			391	390		
1R5	1.5			6R8	6.8			390	39			471	470		
1R6	1.6			7R5	7.5			430	43						

Cap values in **blue** are available in UL only, in **red** available in MS only.

C08 Designer and Engineering Kits

Values for the C08 Designer Kits and the C08 Engineering Kit are the same as the C06 Designer Kits and the C06 Engineering Kit. Refer to tables on page 11.

Electrical Specifications

Dielectric Material Code	Temperature Coefficient (ppm/°C Maximum)	Dissipation Factor (% @ 1MHz Maximum)	Dielectric Withstanding Voltage		Insulation Resistance (MΩ Minimum)		Aging Piezoelectric	Piezoelectric Effects	Dielectric Absorption
			Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C			
UL	0 ± 30	0.05	250	625	10 ⁵	10 ⁴	None	None	None
MS	0 ± 30	0.05	250	625	10 ⁵	10 ⁴			
			150	375					
			100	250					
			50	125					

Tolerance Codes

Code	Tolerance
A	± 0.05pF
B	± 0.10pF
C	± 0.25pF
F	± 1%
G	± 2%
J	± 5%
K	± 10%

Mouser Electronics

Authorized Distributor

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Dielectric Laboratories:

<u>C08UL4R3B-9ZN-X0T</u>	<u>C08UL1R4B-9ZN-X0T</u>	<u>C08UL220J-9ZN-X0T</u>	<u>C08UL3R6B-9ZN-X0T</u>	<u>C08UL0R3B-9ZN-X0T</u>
<u>C08UL180J-9ZN-X0T</u>	<u>C08UL2R0B-9ZN-X0T</u>	<u>C08UL101J-9ZN-X0T</u>	<u>C08UL240J-9ZN-X0T</u>	<u>C08UL2R4B-9ZN-X0T</u>
<u>C08UL510J-9ZN-X0T</u>	<u>C08UL5R6B-9ZN-X0T</u>	<u>C08UL3R3B-9ZN-X0T</u>	<u>C08UL1R6B-9ZN-X0T</u>	<u>C08UL1R7B-9ZN-X0T</u>
<u>C08UL330J-9ZN-X0T</u>	<u>C08UL1R9B-9ZN-X0T</u>	<u>C08UL680J-9ZN-X0T</u>	<u>C08UL910J-9ZN-X0T</u>	<u>C08UL390J-9ZN-X0T</u>
<u>C08UL0R4B-9ZN-X0T</u>	<u>C08UL0R6B-9ZN-X0T</u>	<u>C08UL120J-9ZN-X0T</u>	<u>C08UL300J-9ZN-X0T</u>	<u>C08UL150J-9ZN-X0T</u>
<u>C08UL2R2B-9ZN-X0T</u>	<u>C08UL560J-9ZN-X0T</u>	<u>C08UL1R0B-9ZN-X0T</u>	<u>C08UL7R5B-9ZN-X0T</u>	<u>C08UL5R1B-9ZN-X0T</u>
<u>C08UL3R9B-9ZN-X0T</u>	<u>C08UL0R5B-9ZN-X0T</u>	<u>C08UL1R5B-9ZN-X0T</u>	<u>C08UL270J-9ZN-X0T</u>	<u>C08UL0R9B-9ZN-X0T</u>
<u>C08UL0R7B-9ZN-X0T</u>	<u>C08UL750J-9ZN-X0T</u>	<u>C08UL2R1B-9ZN-X0T</u>	<u>C08UL3R0B-9ZN-X0T</u>	<u>C08UL820J-9ZN-X0T</u>
<u>C08UL200J-9ZN-X0T</u>	<u>C08UL4R7B-9ZN-X0T</u>	<u>C08UL9R1B-9ZN-X0T</u>	<u>C08UL110J-9ZN-X0T</u>	<u>C08UL6R8B-9ZN-X0T</u>
<u>C08ULR45B-9ZN-X0T</u>	<u>C08UL1R3B-9ZN-X0T</u>	<u>C08ULR35B-9ZN-X0T</u>	<u>C08UL0R8B-9ZN-X0T</u>	<u>C08UL160J-9ZN-X0T</u>
<u>C08UL1R8B-9ZN-X0T</u>	<u>C08UL8R2B-9ZN-X0T</u>	<u>C08UL430J-9ZN-X0T</u>	<u>C08UL1R2B-9ZN-X0T</u>	<u>C08UL620J-9ZN-X0T</u>
<u>C08UL2R7B-9ZN-X0T</u>	<u>C08UL360J-9ZN-X0T</u>	<u>C08UL100J-9ZN-X0T</u>	<u>C08UL470J-9ZN-X0T</u>	<u>C08UL130J-9ZN-X0T</u>