

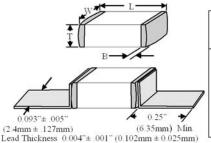
FUNCTIONAL APPLICATIONS

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

BENEFITS

Resonant Free Performance High Q SMD Compatibility -55 to +125 °C Operating Range

Mechanical Specification



Product Code	Е	Body Dimensi	ons	Termination Code, Band Dimension and Material				
Code	Length (L)	Width (W)	Thickness (T)	Code	Band (B)	Material		
	.110" + .020" 010" (2.79 + 0.51 - 0.25)	.110" ± .015" (2.79 ± .381)	.100" (2.54) Max.	Z	.015"± .010" (.381± .254)	Ni Barrier, Tin Plate		
C17				s		Ni Barrier, Au Flash		
CIT				Р		AgPd Termination		
				U		Ni Barrier, Solder Plate		

Laser markings available in Horizontal and Vertical orientation. Codes L, V, D. The MS material system is available in Z and U terminations only. U termination is not available in the UL material system.

Capacitance Table

	C17 High Q Capacitance Values																
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		
0R1	0.1		1	2R0	2.0			130	13			101	100				
0R2	0.2			2R1	2.1			150	15			111	110		15000015000		
R25	0.25			2R2	2.2			160	16			121	120		1000V*		
0R3	0.3			2R4	2.4]		180	18			151	150		Code 7		
R35	0.35			2R7	2.7			200	20			181	180				
0R4	0.4			3R0	3.0			220	22			221	220		1 1		
R45	0.45			3R3	3.3			240	24			271	270				
0R5	0.5				3R6	3.6	A		270	27	_		331	330	_		
0R6	0.6			3R9	3.9	В		300	30	F	1000V	391	390	F G	500V**		
0R7	0.7	A B	1000V	4R3	4.3	C	1000V	330	33	G		471	470				
0R8	0.8		C		Code 7	4R7	4.7	D	Code 7	360	36	J K	Code 7	511	510	K	Code 4
0R9	0.9	D	Code /	5R1	5.1		Code /	390	39	M	Code /	561	560	M	0.000,000		
1R0	1.0	U		5R6	5.6	1		430	43	1 141		621	620	IVI			
1R2	1.2			6R2	6.2			470	47			681	680		1 1		
1R3	1.3			6R8	6.8			510	51			821	820		250V***		
1R4	1.4			7R5	7.5			560	56			911	910		Code 9		
1R5	1.5			8R2	8.2			620	62			102	1000		Code 9		
1R6	1.6			9R1	9.1			680	68			122	1200				
1R7	1.7			100	10		i j	750	75			152	1500		100V		
1R8	1.8			110	11	FGJKM		820	82			182	1800		Code 1		
1R9	1.9			120	12			910	91			222	2200				

All cap values shown in **red** are available in MS only, in **blue** are available in CF, AH, and UL only.

- * All CF, AH, and UL capacitors in the cap range from 110pF to 220pF are 500V rated, Code 4.
- ** All CF, AH, and UL capacitors in the cap range from 270pF to 680pF are 200V rated, Code 6.
- *** All CF, AH, and UL capacitors in the cap range from 820pF to 1000pF are 50V rated, Code 6.

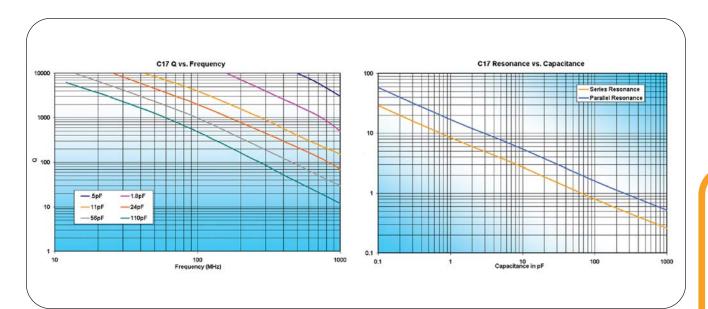
Electrical Specifications

Dielectric Material	Temperature Coefficient (ppm/°C Maximum)	Dissipation Factor (% @ 1MHz Maximum)	withstanding voltage		Resistance (MΩ Minimum)		Aging	Piezoelectric Effects	Dielectric Absorption	
Code			Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C				
АН	P90 ± 20	0.05	1000	2500	10 ⁶	10 ⁵				
CF	0 ± 15	0.05	500 250	1250 625	10	10	None	None	None	
UL	0 ± 30	0.05			10 ⁵	10 ⁴				
MS	0 ± 30	0.05	1000, 500, 250 ,100	2500, 1250 625,250	10 ⁵	10 ⁴				

Toleran	Tolerance Codes						
Code	Tolerance						
Α	± 0.05pF						
В	± 0.10pF						
С	± 0.25pF						
F	± 1%						
G	± 2%						
J	± 5%						
K	± 10%						



C17 1111



C17

ENGINEE	RING KIT
CODE	CAP
0R3	0.3pF
0R5	0.5pF
0R7	0.7pF
1R0	1.0pF
1R2	1.2pF
1R5	1.5pF
1R8	1.8pF
2R0	2.0pF
2R2	2.2pF
2R7	2.7pF
3R3	3.3pF
3R9	3.9pF
4R7	4.7pF
5R6	5.6pF
6R8	6.8pF
8R2	8.2pF
100	10pF
120	12pF
150	15pF
180	18pF
220	22pF
270	27pF
330	33pF
390	39pF
470	47pF
560	56pF
680	68pF
820	82pF
101	100pF
151	150pF
221	220pF
331	330pF
471	470pF
681	680pF

1000pF

C08BLBB1X5UX 2400pF Block

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C17 DESIGNER KIT

KIT	KIT	KIT	KIT
С	D	Е	F
0R1	1R0	5R6	390
0R2	1R2	6R8	470
0R3	1R5	8R2	560
0R4	1R8	100	620
0R5	2R2	120	820
0R6	2R7	150	101
0R7	3R3	180	221
0R8	3R9	220	471
0R9	4R7	270	681
1R0	5R1	330	102

DLI reserves the right to substitute values as required. Customer may request particular cap value and material for sample kit to prove designs.





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