

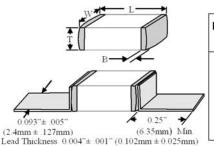
## **FUNCTIONAL APPLICATIONS**

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

					С	17 High	Q Cap	acitano	e Valu	es					
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			2R0	2.0			130	13			101	100		
0R2	0.2			2R1	2.1			150	15			111	110		50-0-0.00000
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	A B C	40001/	220	22		40001/	221	220	F G	
R45	0.45			3R3	3.3			240	24			271	270		500V**
0R5	0.5			3R6	3.6			270	27	_		331	330		
0R6	0.6			3R9	3.9			300	30	F		391	390		
0R7	0.7	A	1000V	4R3	4.3			330	33	G		471	470		
0R8	0.8	B C	Code 7	4R7	4.7 D	1000V Code 7	360	36	J	1000V Code 7	511	510	J K	Code 4	
0R9	0.9	D	Code /	5R1	5.1	7	Code 7	390	39	K	Code 7	561	560	M	0.002,000,000
1R0	1.0	U		5R6	5,6			430	43	I		621	620		
1R2	1.2			6R2	6.2	1		470	47			681	680		
1R3	1.3			6R8	6.8			510	51	1		821	820	00	0501/###
1R4	1.4			7R5	7.5			560	56	1		911	910		250V***
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			750	75			152	1500		100V
1R8	1.8			110	11	FGJKM		820	82			182	1800		Code 1
1R9	1.9			120	12			910	91	1		222	2200		10.100-01888 750

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.

# **Electrical Specifications**

Dielectric Material	Temperature Coefficient	Dissipation Factor	Dieled Withstandir		Resis	stance inimum)	Aging	Piezoelectric Effects	Dielectric Absorption		
Code	(ppm/°C Maximum)	(% @ 1MHz Maximum)	Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C	) <sup>5</sup> None	None	None	Tolerance Codes	
	maximam,				w 125 C					Code	Tolerance
10.000			1000 500 250	0 1250 0 625 None None None		3,000				Α	± 0.05pF
AH	AH P90 ± 20	20 0.05								В	± 0.10pF
										С	± 0.25pF
CF	CF 0 ± 15	0.05								F	± 1%
										G	± 2%
UL	0 ± 30	0.05								J	± 5%
			Parent and the second				K	± 10%			
MS	0 ± 30	0.05	1000, 500, 250 ,100	2500, 1250 625,250	10 <sup>5</sup>	10 <sup>4</sup>					

Insulation

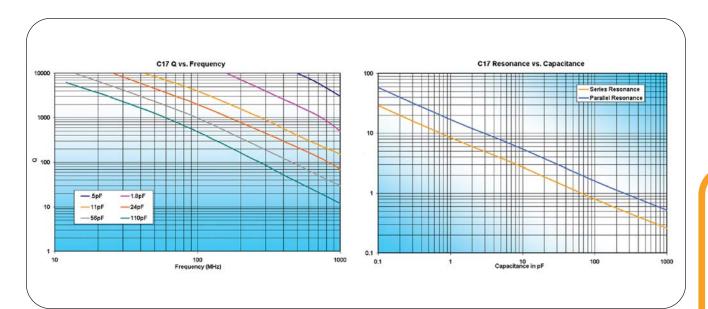


Dielectric Laboratories

<sup>\*\*</sup> All CF, AH, and UL capacitors in the cap range from 270pF to 680pF are 200V rated, Code 4.

<sup>\*\*\*</sup> All CF, AH, and UL capacitors in the cap range from 820pF to 1000pF are 50V rated, Code 6.

# 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.



