

FUNCTIONAL APPLICATIONS

DC Blocking

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

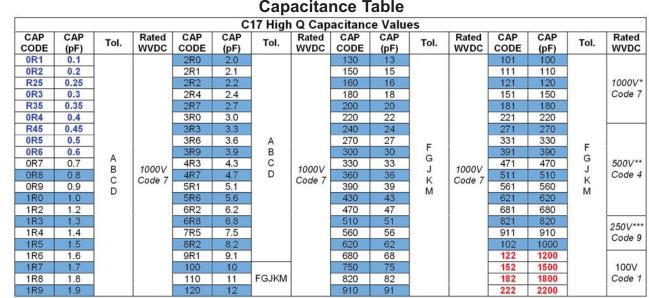
BENEFITS

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

Mechanical Specification

	Product	E	Body Dimensi	ons	Termination Code, Band Dimension and Material		
*	Code	Length (L)	Width (W)	Thickness (T)	Code	Band (B)	Material
B	C17	.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
					S		Ni Barrier, Au Flash
					Р		AgPd Termination
0.093"±.005"					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.



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.

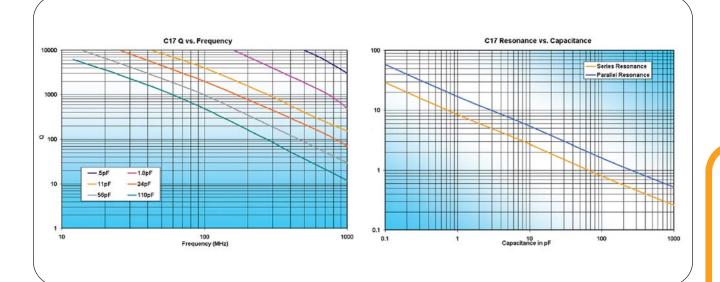
Dielectric Material	COEfficient Factor		Dielectric Withstanding Voltage		Insulation Resistance (MΩ Minimum)		Aging	Piezoelectric Effects	Dielectric Absorption		
Code (ppm/°C Maximum)		(% @ 1MHz Maximum)	Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C					ce Codes
										Code	Tolerance
AH P90 ± 20										А	± 0.05pF
	0.05			1.000					В	± 0.10pF	
			1000 500	2500 1250	10 ⁶	10 ⁵				С	± 0.25pF
CF	0 ± 15	0.05	250 1000, 500, 250, 100	625			None	None	None	F	± 1%
										G	± 2%
UL	0 ± 30	0.05			10 ⁵	10 ⁴				J	± 5%
										K	± 10%
MS	0 ± 30	0.05		2500, 1250 625,250	10 ⁵	10 ⁴					

Electrical Specifications

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C17 **ENGINEERING KIT** CODE CAP 0.3pF 0.5pF 0.7pF 1.0pF 1.2pF 1.5pF 1.8pF 2.0pF 2.2pF 2.7pF 3.3pF 3.9pF 4.7pF 5.6pF 6.8pF 8.2pF 10pF 12pF 15pF 18pF 22pF 27pF 33pF 39pF 47pF 56pF 68pF 82pF 100pF 150pF

220pF

330pF

470pF

680pF 1000pF

C08BLBB1X5UX 2400pF Block

0R3

0R5

0R7

1R0

1R2

1R5

1R8

2R0

2R2

2R7

3R3

3R9

4R7

5R6

6R8

8R2

100

120

150

180

220

270

330

390

470

560

680

820

101

151

221

331

471

681

102

C17 DESIGNER KIT

	KIT	KIT	KIT	KIT	
	С	D	E	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	
1	0R9	4R7	270	681	ļ
1	1R0	5R1	330	102	I
					1

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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