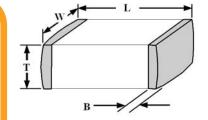


## FUNCTIONAL APPLICATIONS

DC Blocking Amplifier Matching Networks VCO Frequency Stabilization Filtering and Diplexers Antenna Matching

#### BENEFITS

Stable TC EIA 0603 Case Size SMD Compatibility -55 to +125 °C Operating Range

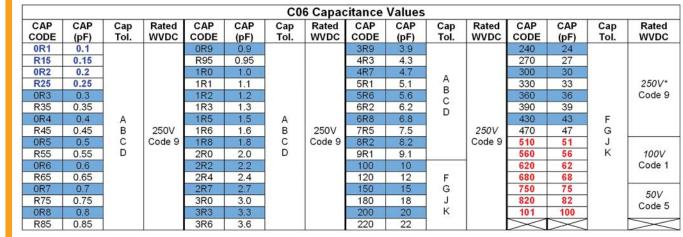


#### Mechanical Specifications

Product Code	E	Body Dimensi	ons	Termination Code, Band Dimension and Material				
	Length (L)	Width (W)	Thickness (T)	Code	Band (B)	Material		
C06	.063" ± .009" (1.6 ± 0.23)	.031" ± .008" (0.80 ± 0.20)	.031"Max (0.80) Max.	Z	.010" + .010" 005" (.254 + .254 127)	Ni Barrier, Tin Plate		
				S		Ni Barrier, Au Flash		
				Р		AgPd Terminatio		
				U		Ni Barrier Solder Plat		

Laser Markings available in Horizontal orientation only, Code L. The MS material system is available in Z termination only. U termination is not available in the UL material system.

## **Capacitance Table**



\*MS capacitors in the cap range 36pF to 47pF are 150V rated, Code 8. Cap values in **red** are available in MS only, in **blue** available in UL, CF, and AH only.

## **Electrical Specifications**

	Material Code	Temperature Coefficient (ppm/°C Maximum)	Dissipation Factor (% @ 1MHz Maximum)	withstanding voltage		Insulation Resistance (MΩ Minimum)		Aging	Piezoelectric	Dielectric	Tolerance Codes					
											Code	Tolerance				
				Voltage Rating	DWV	@ +25°C @ +125°C	@ +25°C			Effects	Effects	Effects	Absorption	А	± 0.05pF	
		maximaniy	muximaniy	(Volts)	(Volts)	@ +25 C	@ +125 C				В	± 0.10pF				
	CF	0 ± 15	0.05	250	625	10 <sup>6</sup>	10 <sup>5</sup>	None		None None					С	± 0.25pF
														F	± 1%	
	UL	0 ± 30	0.05	250	625	10 <sup>5</sup>	10 <sup>4</sup>		None		None	G	± 2%			
				250	625							J	± 5%			
	MS	0 ± 30	0.05	100	250	10 <sup>5</sup>	10⁴				K	± 10%				
				50	125											

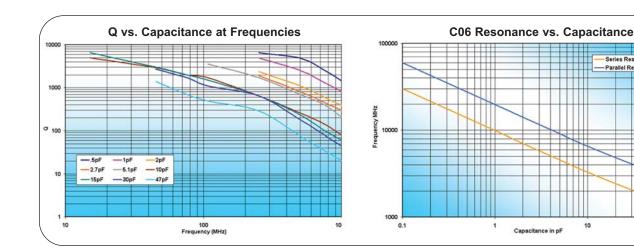


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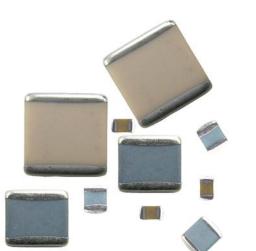
## C06 DESIGNER KIT

## C06 **ENGINEERING KIT**

20 Pieces Each of 23 Values					
CODE	CAP				
0R3	0.3pF				
0R5	0.5pF				
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				
100	10pF				
120	12pF				
150	15pF				
180	18pF				
220	22pF				
270	27pF				
330	33pF				
470	47pF				
560	56pF				
680	68pF				
820	82pF				
101	100pF				
C08BLBB1X5UX	2400pF Block				

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

KIT	KIT	KIT
С	D	E
0R1	1R2	6R8
0R2	1R5	8R2
0R3	1R8	<u>9R1</u>
0R4	2R2	100
0R5	2R7	120
0R6	<u>3R3</u>	150
0R7	3R9	220
0R8	4R7	270
0R9	5R1	360
1R0	5R6	470





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D55342E07B523DR-T/R NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R392K50TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF NMC0603NPO330G50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO220J100TRPF NMC0805NPO270J50TRPF NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF NMC1206X7R102K50TRPF NMC1210Y5V105Z50TRPLPF NMC-L0402NPO7R0C50TRPF NMC-L0603NPO2R2B50TRPF NMC-P1206X7R103K1KVTRPLPF NMC-Q0402NPO8R2D200TRPF NPIS27H102MTRF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J KHC201E225M76N0T00 1812J2K00332KXT CCR06CG153FSV CDR14BP471CJUR CDR31BX103AKWR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2C0G1H820J CGA2B2X8R1H152K