

\$\$. C06 0603



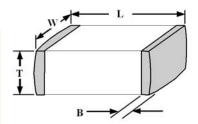
FUNCTIONAL APPLICATIONS

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	ody Dimensi	ions	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 Termination		
				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

C06 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			0R9	0.9			3R9	3.9			240	24		
R15	0.15			R95	0.95			4R3	4.3			270	27		
0R2	0.2			1R0	1.0			4R7	4.7	_		300	30		
R25	0.25			1R1	1.1			5R1	5.1	A B		330	33		250V*
0R3	0.3			1R2	1.2			5R6	5.6	C		360	36		Code 9
R35	0.35			1R3	1.3			6R2	6.2	Ď		390	39		
0R4	0.4	Α		1R5	1.5	Α		6R8	6.8			430	43	F	
R45	0.45	В	250V	1R6	1.6	В	250V	7R5	7.5		250V	470	47	G	
0R5	0.5	С	Code 9	1R8	1.8	С	Code 9	8R2	8.2		Code 9	510	51	J	
R55	0.55	D		2R0	2.0	D		9R1	9.1			560	56	K	100V
0R6	0.6			2R2	2.2			100	10		1	620	62		Code 1
R65	0.65			2R4	2.4			120	12	F		680	68		
0R7	0.7			2R7	2.7			150	15	G		750	75	Ť.	50V
R75	0.75			3R0	3.0			180	18	J		820	82		Code 5
0R8	0.8			3R3	3.3			200	20	K		101	100		Code 3
R85	0.85			3R6	3.6			220	22			><	><		><

*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

Dielectric Material	Temperature Coefficient	Dissipation Factor	Dielectric Withstanding Voltage		Insulation Resistance (MΩ Minimum)		Aging	Piezoelectric	Dielectric
Code (ppm/°C Maximum		(% @ 1MHz Maximum)	Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C		Effects	Absorption
CF	0 ± 15	0.05	250	625	10 ⁶	10⁵		None	None
UL	0 ± 30	0.05	250	625	10 ⁵	10⁴	None		
MS	0 ± 30	0.05	250 100 50	625 250 125	10 ⁵	10⁴			

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



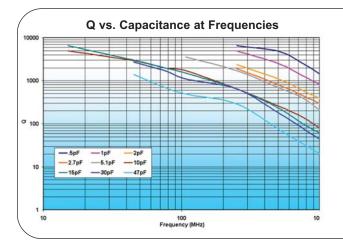
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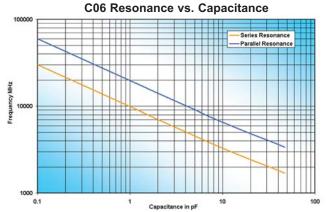
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C06 **ENGINEERING KIT**

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

15pF

18pF

22pF

27pF 33pF

47pF

56pF

68pF

82pF

100pF

150

180

220

270

330 470

560

680

820

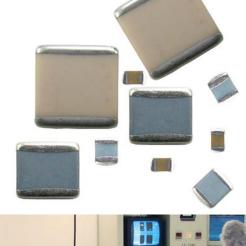
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DLI reserves the right to substitute values as required. Customer may request particular cap value and material for sample kit to prove designs.

C08BLBB1X5UX 2400pF Block

C06 DESIGNER KIT

KIT	KIT	KIT
С	D	E
0R1	1R2	6R8
0R2	1R5	8R2
0R3	1R8	9R1_
0R4	2R2	100
0R5	2R7	120
0R6	3R3	150
0R7	3R9	220
0R8	4R7	270
0R9	5R1	360
1R0	5R6	470





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Knowles:

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C06CF240J-9UN-X1T C06CF0R6B-9UN-X1T C06CF300J-9UN-X1T C06CF180J-9UN-X1T C06CF5R6B-9UN-X1T
C06CFR55B-9UN-X1T C06CF3R6B-9UN-X1T C06CF0R4B-9UN-X1T C06CF220J-9UN-X1T C06CF1R5B-9UN-X1T
C06CF0R1B-9UN-X1T C06CFR85B-9UN-X1T C06CF0R5B-9UN-X1T C06CF5R1B-9UN-X1T C06CF100J-9UN-X1T
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