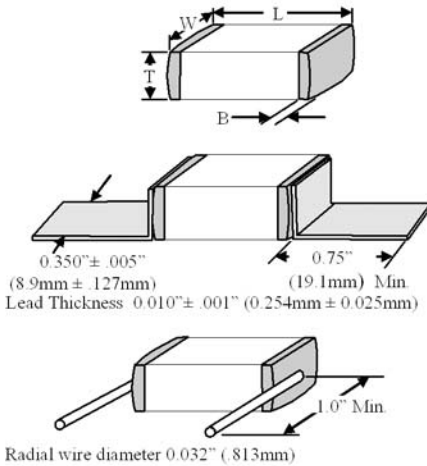


FUNCTIONAL APPLICATIONS

- Impedance Matching
- D.C. Blocking
- Bypass, Coupling
- Tuning and Feedback

BENEFITS

- Power Handling, High voltage
- High Q and Low ESR
- 55 to +125 °C Operating Range



Mechanical Specifications

Product Code	Body Dimensions			Termination Code, Band Dimension and Material		
	Length (L)	Width (W)	Thickness (T)	Code	Band (B)	Material
C40	.380" + .015" - .010" (9.65 + .381 - .254)	.380" ± .010" (9.65 ± .254)	.130" (3.30) Max.	Z	.020" (.508) Min. .030" (.762) Max.	Ni Barrier, Tin Plate
				S		Ni Barrier, Au Flash
				P		AgPd Termination
				U		Ni Barrier, Solder Plate

Laser marking available in Horizontal orientation only. Code L.

Capacitance Table

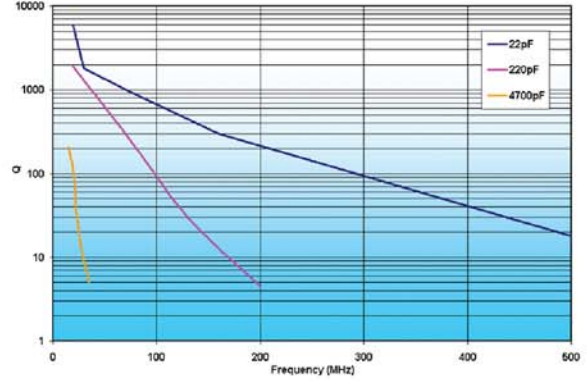
C40 Capacitance Values																						
CAP CODE	CAP (pF)	Tol.	Rated WVDC	CAP CODE	CAP (pF)	Tol.	Rated WVDC	CAP CODE	CAP (pF)	Tol.	Rated WVDC	CAP CODE	CAP (pF)	Tol.	Rated WVDC							
1R0	1.0	A B C D	7200V Code H	100	10	F G J K M	7200V Code H	121	120	F G J K M	3600V Code D	821	820	F G J K M	1000V Code 7							
1R2	1.2			120	12			151	150			102	1000									
1R5	1.5			150	15			181	180			122	1200									
1R8	1.8			180	18			221	220			152	1500									
2R2	2.2			220	22			271	270			182	1800									
2R7	2.7			270	27			331	330			222	2200									
3R3	3.3			330	33			391	390			272	2700									
3R9	3.9			390	39			471	470			332	3300									
4R7	4.7			470	47			561	560			392	3900									
5R6	5.6			560	56			681	680			472	4700									
6R8	6.8			680	68							512	5100									
8R2	8.2			820	82																	
				101	100																	500V Code 4

Electrical Specifications

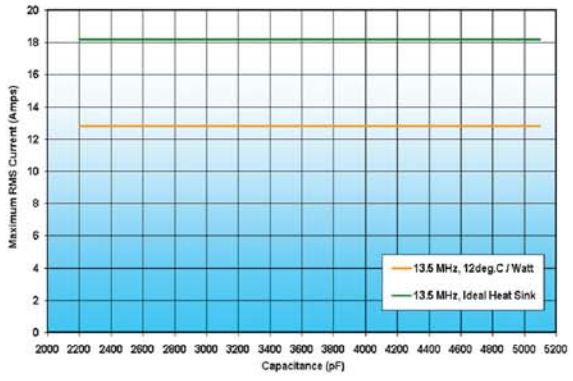
Dielectric Material Code	Temperature Coefficient (ppm/°C Maximum)	Dissipation Factor (% @ 1MHz Maximum)	Dielectric Withstanding Voltage		Insulation Resistance (MΩ Minimum)		Aging	Piezoelectric Effects	Dielectric Absorption	Tolerance Codes	
			Voltage Rating (Volts)	DWV (Volts)	@ +25°C					Code	Tolerance
					@ +25°C	@ +125°C					
AH	P90 ± 20	0.05	7200	8700	10 ⁶	10 ⁵	None	None	None	A	± 0.05pF
			3600	4400						B	± 0.10pF
			2500	3750						C	± 0.25pF
CF	0 ± 15	0.05	1000	1500						F	± 1%
			500	1250						G	± 2%
										J	± 5%
										K	± 10%
										M	± 20%

Note: Dissipation Factor applies to values > 4.7pF.
Parts rated >1000V are 100% IR tested @1000V

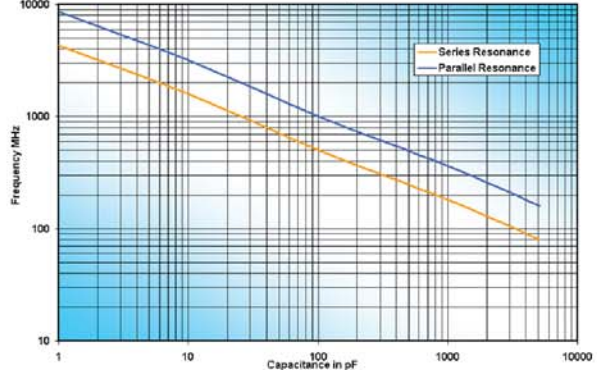
C40 Q vs. Frequency



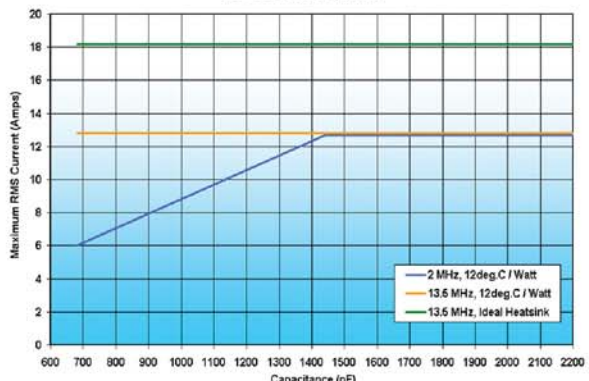
**C40 Max Current vs. Capacitance Value
500VDC Rated Capacitors**



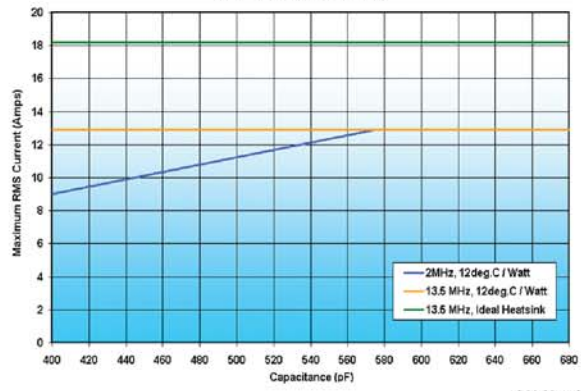
C40 Resonance vs. Capacitance



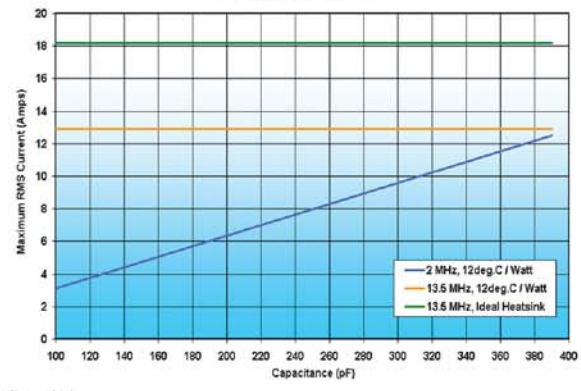
**C40 Max Current vs. Capacitance Value
1000VDC Rated Capacitors**



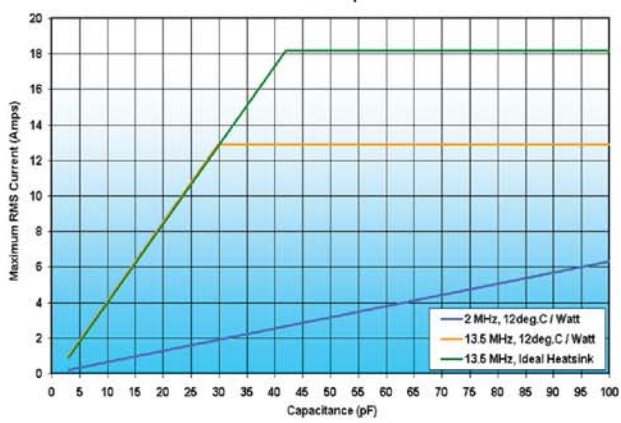
**C40 Max Current vs. Capacitance Value
2500VDC Rated Capacitors**



**C40 Max Current vs. Capacitance Value
3600VDC Rated Capacitors**



**C40 Max Current vs. Capacitance Value
7200VDC Rated Capacitors**



Dielectric Laboratories

