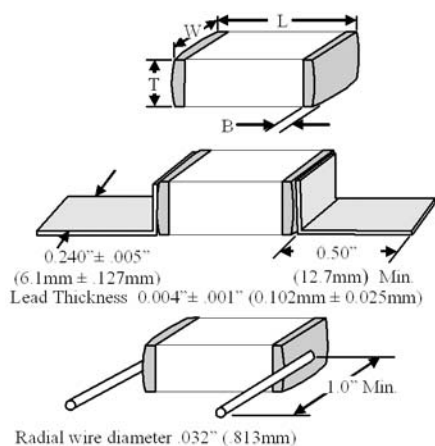


FUNCTIONAL APPLICATIONS

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

BENEFITS

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

**Mechanical Specification**

Product Code	Body Dimensions			Termination Code, Band Dimension and Material		
	Length (L)	Width (W)	Thickness (T)	Code	Band (B)	Material
C22CF	.220" + .020" - .010" (5.59 + .508 - .254)	.245" + .020" - .010" (6.22 + .508 - .254)	.130" (3.30) Max.	Z	.030" ± .010" (.762 ± .254)	Ni Barrier, Tin Plate
				S		Ni Barrier, Au Flash
				P		AgPd Termination
				U		Ni Barrier, Solder Plate

Laser markings available in Horizontal orientation only, Code L

Capacitance Table

C22 High Q, High Power, Capacitance Values															
Available in CF Dielectric Material Only															
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
1R0	1.0	B C D	2500V Code B	8R2	8.2	B, C, D F G J K M	2500V Code B	680	68	F G J K M	2500V Code B	561	560	F G J K M	1000V Code 7
1R2	1.2			100	10			820	82			681	680		
1R5	1.5			120	12			101	100			821	820		
1R8	1.8			150	15			121	120			102	1000		
2R2	2.2			180	18			151	150			122	1200		
2R7	2.7			220	22			181	180			152	1500		500 V Code 4
3R3	3.3			270	27			221	220			182	1800		
3R9	3.9			330	33			271	270			222	2200		
4R7	4.7	B C D	2500V Code B	390	39	F G J K M	2500V Code B	331	330	F G J K M	1500V Code A	272	2700	F G J K M	300V Code 3
5R6	5.6			470	47			391	390						
6R8	6.8			560	56			471	470						

Electrical Specification

Dielectric Material Code	Temperature Coefficient (ppm/°C Maximum)	Dissipation Factor (% @ 1MHz Maximum)	Dielectric Withstanding Voltage		Insulation Resistance (MΩ Minimum)		Aging	Piezoelectric Effects	Dielectric Absorption
			Voltage Rating (Volts)	DWV (Volts)	@ +25°C	@ +125°C			
CF	0 ± 15	0.05	2500	3000	10 ⁶	10 ⁵	None	None	None
			1500	1800					
			1000	1500					
			500	1250					
			300	750					

Tolerance Codes

Code	Tolerance
B	± 0.10pF
C	± 0.25pF
D	± 0.50pF
F	± 1%
G	± 2%
J	± 5%
K	± 10%
M	± 20%

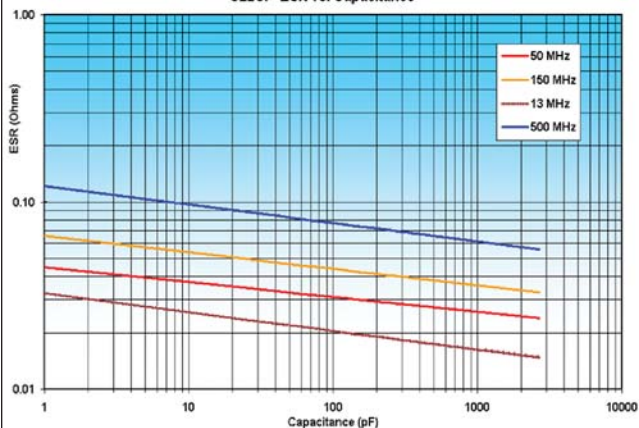
Dissipation Factor applies to values of 4.7pF or greater.
Parts rated >1000V are 100% IR tested @1000V



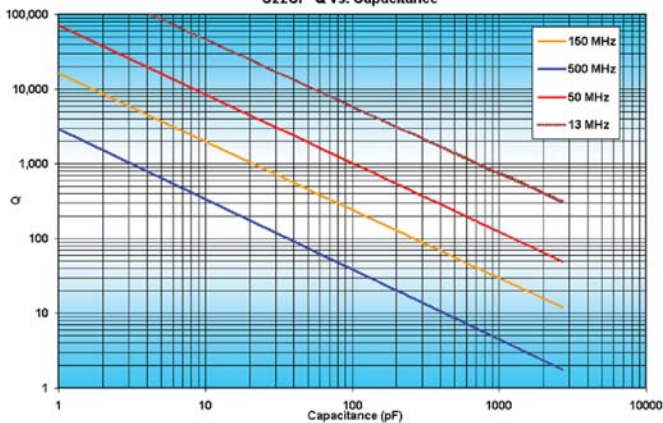
C22 2225



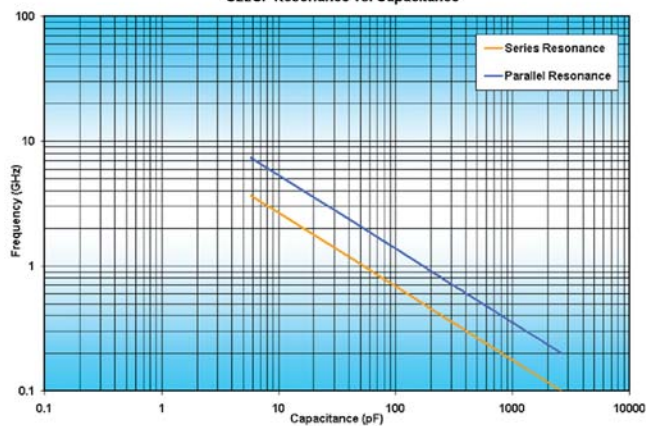
C22CF ESR vs. Capacitance



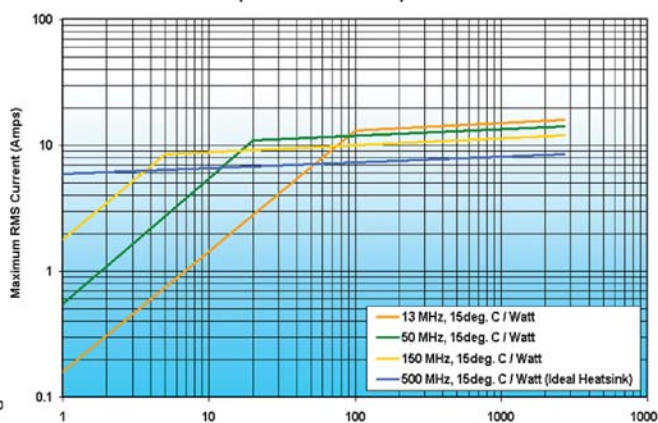
C22CF Q vs. Capacitance



C22CF Resonance vs. Capacitance



C22 Max Current vs Capacitance Value
Up to 2500VDC Rated Capacitors



Dielectric Laboratories

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dielectric Laboratories:

<u>C22CF101J-BZN-X1T</u>	<u>C22CF221J-BZN-X1T</u>	<u>C22CF8R2B-BZN-X1T</u>	<u>C22CF471J-AZN-X1T</u>	<u>C22CF391J-AZN-X1T</u>
<u>C22CF560J-BZN-X1T</u>	<u>C22CF122J-7ZN-X1T</u>	<u>C22CF4R7B-BZN-X1T</u>	<u>C22CF680J-BZN-X1T</u>	<u>C22CF270J-BZN-X1T</u>
<u>C22CF820J-BZN-X1T</u>	<u>C22CF681J-7ZN-X1T</u>	<u>C22CF152J-4ZN-X1T</u>	<u>C22CF6R8B-BZN-X1T</u>	<u>C22CF5R6B-BZN-X1T</u>
<u>C22CF3R3B-BZN-X1T</u>	<u>C22CF390J-BZN-X1T</u>	<u>C22CF561J-7ZN-X1T</u>	<u>C22CF2R7B-BZN-X1T</u>	<u>C22CF470J-BZN-X1T</u>
<u>C22CF100J-BZN-X1T</u>	<u>C22CF151J-BZN-X1T</u>	<u>C22CF3R9B-BZN-X1T</u>	<u>C22CF182J-4ZN-X1T</u>	<u>C22CF120J-BZN-X1T</u>
<u>C22CF331J-AZN-X1T</u>	<u>C22CF1R8B-BZN-X1T</u>	<u>C22CF330J-BZN-X1T</u>	<u>C22CF1R5B-BZN-X1T</u>	<u>C22CF102J-7ZN-X1T</u>
<u>C22CF1R0B-BZN-X1T</u>	<u>C22CF150J-BZN-X1T</u>	<u>C22CF271J-BZN-X1T</u>	<u>C22CF1R2B-BZN-X1T</u>	<u>C22CF2R2B-BZN-X1T</u>
<u>C22CF181J-BZN-X1T</u>	<u>C22CF220J-BZN-X1T</u>	<u>C22CF222J-3ZN-X1T</u>	<u>C22CF121J-BZN-X1T</u>	<u>C22CF821J-7ZN-X1T</u>
<u>C22CF272J-3ZN-X1T</u>	<u>C22CF180J-BZN-X1T</u>			

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Dielectric Laboratories:

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<u>C22CF560J-BZN-X1T</u>	<u>C22CF122J-7ZN-X1T</u>	<u>C22CF4R7B-BZN-X1T</u>	<u>C22CF680J-BZN-X1T</u>	<u>C22CF270J-BZN-X1T</u>
<u>C22CF820J-BZN-X1T</u>	<u>C22CF681J-7ZN-X1T</u>	<u>C22CF152J-4ZN-X1T</u>	<u>C22CF6R8B-BZN-X1T</u>	<u>C22CF5R6B-BZN-X1T</u>
<u>C22CF3R3B-BZN-X1T</u>	<u>C22CF390J-BZN-X1T</u>	<u>C22CF561J-7ZN-X1T</u>	<u>C22CF2R7B-BZN-X1T</u>	<u>C22CF470J-BZN-X1T</u>
<u>C22CF100J-BZN-X1T</u>	<u>C22CF151J-BZN-X1T</u>	<u>C22CF3R9B-BZN-X1T</u>	<u>C22CF182J-4ZN-X1T</u>	<u>C22CF120J-BZN-X1T</u>
<u>C22CF331J-AZN-X1T</u>	<u>C22CF1R8B-BZN-X1T</u>	<u>C22CF330J-BZN-X1T</u>	<u>C22CF1R5B-BZN-X1T</u>	<u>C22CF102J-7ZN-X1T</u>
<u>C22CF1R0B-BZN-X1T</u>	<u>C22CF150J-BZN-X1T</u>	<u>C22CF271J-BZN-X1T</u>	<u>C22CF1R2B-BZN-X1T</u>	<u>C22CF2R2B-BZN-X1T</u>
<u>C22CF181J-BZN-X1T</u>	<u>C22CF220J-BZN-X1T</u>	<u>C22CF222J-3ZN-X1T</u>	<u>C22CF121J-BZN-X1T</u>	<u>C22CF821J-7ZN-X1T</u>
<u>C22CF272J-3ZN-X1T</u>	<u>C22CF180J-BZN-X1T</u>			