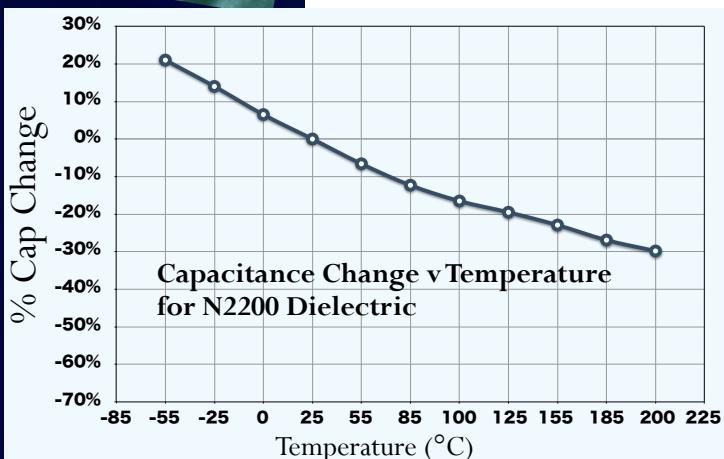


# N2200 Fuze Capacitors



Wright Capacitors Inc.'s **N2200 Fuze Capacitors** are manufactured using WCI's proprietary negative temperature coefficient dielectric formulation. The non-piezo nature of this material makes it ideally suited for repetitive or single high current **pulse type applications**; such as, **detonation** in oil fields or munition type environments. WCI has been supplying this dielectric for high reliability and demanding applications for over 20 years. WCI's N2200 dielectric formulation also shows excellent voltage coefficient making this material more volumetrically efficient than X7R at high voltages.



## Dielectric Characteristics

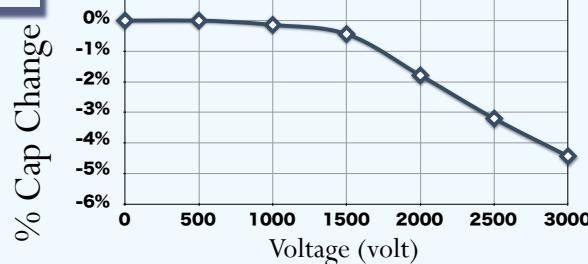
Temperature Coefficient: 2200ppm/ $^{\circ}\text{C}$  (-55°C to

dF: 0.15% Max

IR: 25°C > 100G $\Omega$   
125°C > 10G $\Omega$   
200°C > 1G $\Omega$

DWV: 500VDC to = 150% Rated Voltage  
> 1kV = 120% Rated Voltage

Test Parameters: = 1kHz, 1.0 Vrms, 25°C



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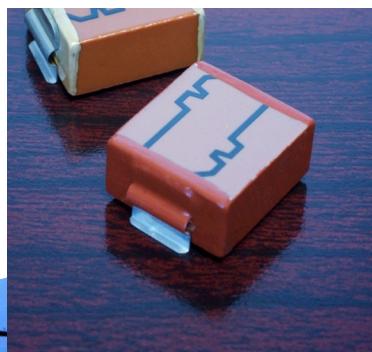
EMAIL: [WCI@WRIGHTCAP.COM](mailto:WCI@WRIGHTCAP.COM) • [WWW.WRIGHTCAPACITORS.COM](http://WWW.WRIGHTCAPACITORS.COM)



As a safety feature an integrated **bleed resistor** can be included on the capacitor. This can either be a single resistive element or dual for redundancy purposes. Typical resistance values range from  $100M\Omega$  to  $500M\Omega$  at  $\pm 20\%$ . Although other values and tolerances can be specified. Resistors are stable up to  $200^\circ C$ .

Fuze caps with an integrated bleed resistor will be coated with our clear, high temperature, high voltage and moisture resistant protective coating. All other fuze caps will be coated with our red urethane varnish.

Our fuze capacitors can be included in any of our standard lead configurations or custom **lead attach / PWB mount**.



### Case Size, Voltage, Capacitance

Case Size	2838	3840	4565	6964	8840	13060
<b>Length (inch nominal)</b>	0.280	0.380	0.450	0.690	0.880	1.300
<b>Width (inch nominal)</b>	0.380	0.400	0.650	0.650	0.400	0.600
<b>Thick (inch maximum)</b>	0.275	0.275	0.300	0.300	0.300	0.300
<b>Voltage / Capacitance(pF)</b>						
<b>500volt</b>	184	224	474	824		
<b>1,000volt</b>	104	154	334	564		
<b>2,000volt</b>	473	563	124	274		
<b>3,000volt</b>	183	223	473	104		
<b>4,000volt</b>	823	103	333	683	223	104
<b>5,000volt</b>	392	562	103	223	123	473
<b>7,000volt</b>			562	103	562	153
<b>10,000volt</b>			272	682	332	822

\*Other sizes available on request - contact factory

### Ordering Information

SMN	3840	TH	R	124	K	D	102	-R300
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SM- Surface Mount	Chip Size <b>E</b> = E Lead <b>G</b> = Gull Lead	Dielectric <b>N</b> = NPO <b>R</b> = N2200	Capacitance Value Code 102=1000pF First 2 digits are significant, the third denotes number of zeros	Tolerance <b>F</b> = $\pm 1\%$ <b>G</b> = $\pm 2\%$ <b>J</b> = $\pm 5\%$ <b>K</b> = $\pm 10\%$ <b>M</b> = $\pm 20\%$ <b>Z</b> = $+80\%/-20\%$ <b>V</b> = $+100\%$	Termination Type <b>A</b> = Ag <b>D</b> = Pd/Ag <b>C</b> = Leads w/ SnPb Coating	Voltage 202= 2000volt First 2 numbers are significant, the third denotes the number of zeros	-A, -B, -C Group A,B,C Testing
SMN- Surface Mount w/ Testing	<b>SMN-</b> Surface Mount w/ Testing	<b>J</b> = J Lead <b>L</b> = L Lead <b>T</b> = Tab Lead <b>H</b> = High Temp Coating	<b>X</b> = X7R				-MN No Marking -NC No Coating -R### Bleed Resistor in $M\Omega$ -X###

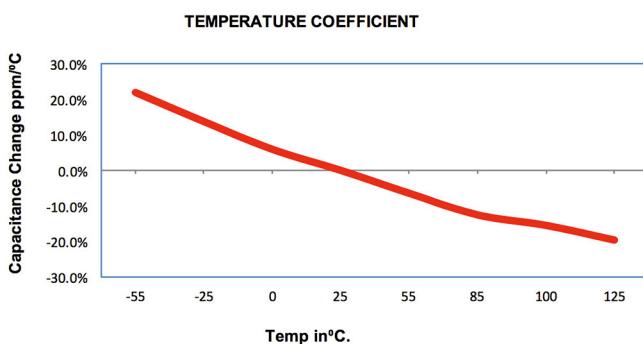
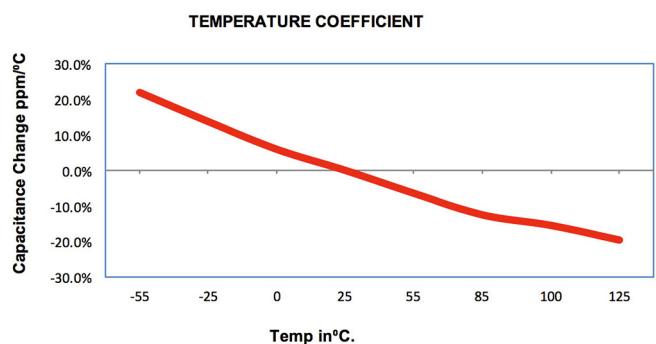
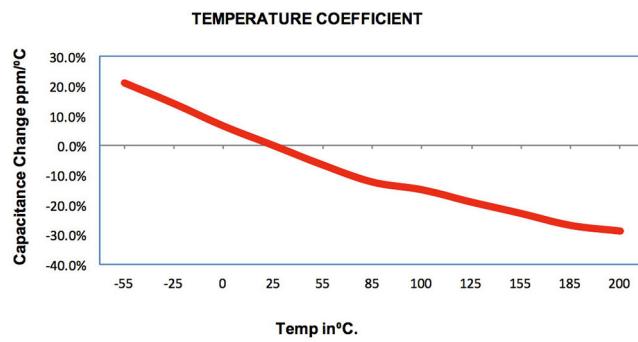


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## Temperature Coefficient

**N2200 Pulse Energy (S)****N2200 (R) Pulse Energy/Fuze Capacitor****N2200 (T) Hi TEMP 200°C**PROUDLY MADE  
IN USA

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**Dielectric Codes**

<b>Prefix</b>	<b>RoHS</b>	<b>Dielectric Code</b>	<b>Material</b>	<b>Temperature Coefficient</b>
		N	COG/NPO	-55°/+125°C
		M	COG/NPO	Hi Temp -55°/+300°C
WC”R”	Y	P	NPO	Hi Temp -55°/+250°C
	Y	R	N2T	-55°/+125°C/ ±500pm
	Y	S	N2T	-55°/+125°C/ ±300pm
	Y	T	N2T	Hi Temp -55°/+200°C
		Z	X7R/BR	BR -55°/+125°C
WC”R”	Y	B	X7R/BR	BR -55°/+125°C
		X	BX/MIL	BX -55°/+125°C CVC -25% max
		U	X8R	Hi Temp -55°/+160°C
		V	X9R	Hi Temp -55°/+200°C
	Y	W	X7R/BZ	BZ -55°/+125°C
	Y	Y	Y5V	Y5V -30°/+85°C

**Prefixes**

<b>Prefix</b>	<b>Description</b>
WC	Standard
WCN	Non standard Requirements High Temperature High Reliability
WCR	RoHS Compliant
HT	High Temperature (Potted Units)
HTN	High Temp w/ High Reliability Testing (Potted Units)
SM	Surface Mount
SMN	Surface Mount with High Reliability Testing

**Capacitance Tolerance Codes**

<b>Code</b>	<b>Tolerance</b>
F	± 1%
G	± 2%
J	± 5%
K	± 10%
M	± 20%
Z	+80%/-20%
V	± 100%

**Suffixes**

<b>Suffix</b>	<b>Description</b>
-A	Group A Testing
-B	Group B Testing
-C	Group C Testing
-NM	No Marking
-NC	No Coating
-R###	Bleed Resistor
-X###	Special Thickness



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