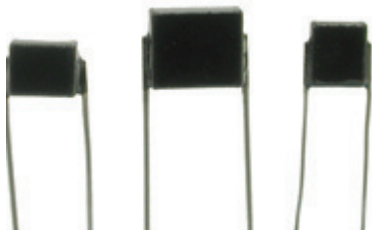
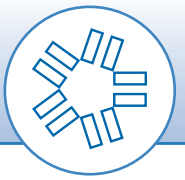
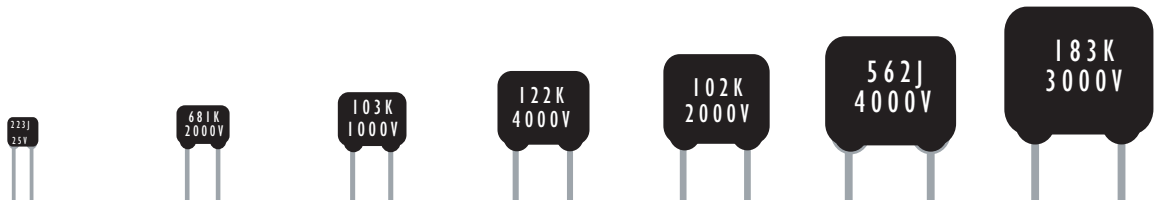
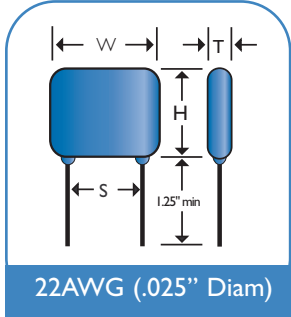


# LEADED HIGH TEMP. EPOXY COATED



NOVACAP manufactures chip capacitors designed and tested to operate from -55°C up to 200°C. Product is available in COG(NP0) a Class I dielectric and in a Class II dielectric operating up to 200°C. Product applications include harsh environments such as oil exploration and Automotive/Avionics engine compartment circuitry. Product is available as epoxy coated devices for environmental protection with 22 AWG tinned copper leads, in sizes 1515 to 7565, marked with capacitance and voltage ratings. Leaded product is also available without epoxy. Consult NOVACAP if your specific requirements exceed our catalog maximums (size, cap. value, and voltage).



SIZE	1515	1812	2520	3530	4540	6560	7565
W Max.	.250 (6.35)	.300 (7.62)	.370 (9.40)	.470 (11.9)	.570 (14.5)	.770 (19.6)	.870 (22.1)
H Max.	.250 (6.35)	.200 (5.08)	.300 (7.62)	.400 (10.2)	.500 (12.7)	.720 (18.3)	.770 (19.6)
T Max.	.190 (4.83)	.160 (4.06)	.240 (6.10)	.310 (7.87)	.360 (9.14)	.360 (9.14)	.360 (9.14)
S +/- .030	.170 (4.32)	.200 (5.08)	.280 (7.11)	.380 (9.65)	.480 (12.2)	.680 (17.3)	.780 (19.8)

## CAPACITANCE & VOLTAGE

3 digit code: two significant digits, followed by number of zeros eg: 183 = 18,000 pF. R denotes decimal, eg. 2R7 = 2.7 pF

MAX CAP @ VOLTAGE	Min Cap	5R0	151	220	151	390	102	221	102	390	102	560	222	101	222
		COG	CLASS II	COG	CLASS II	COG	CLASS II	COG	CLASS II	COG	CLASS II	COG	CLASS II	COG	CLASS II
25V	223	824	273	105	563	225	104	395	184	565	334	156	394	186	
50V	183	684	223	684	563	185	823	275	154	475	274	126	334	156	
100V	103	274	103	274	333	125	563	225	104	335	224	825	274	126	
250V	392	823	682	104	153	274	333	564	563	125	124	275	154	395	
500V	272	183	332	223	562	563	123	124	273	334	563	684	683	824	
1000V	821	272	102	332	182	123	562	273	153	683	333	154	393	224	
2000V	181	561	221	681	391	222	152	682	332	183	822	393	103	473	
3000V	820	221	101	221	181	821	561	272	152	682	332	153	392	183	
4000V	470	•	•	•	101	221	331	122	821	272	182	562	222	822	

NOTE: REFER TO PAGE 32 FOR HOW TO ORDER



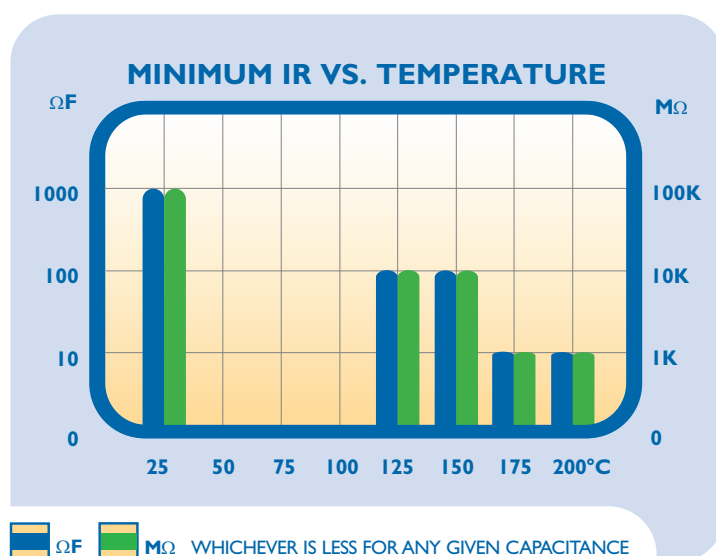
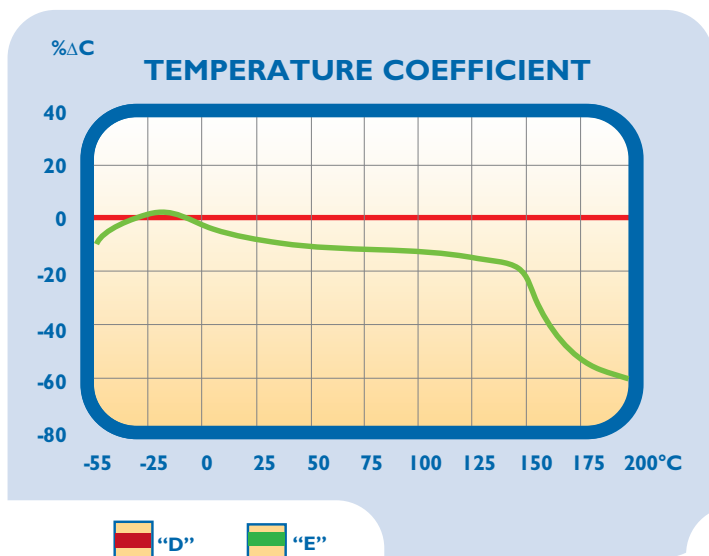
# 200°C - DIELECTRIC CHARACTERISTICS

## CHARACTERISTICS

## “D” COG DIELECTRIC

## “E” CLASS II DIELECTRIC

Operating Temperature Range:	-55°C to 200°C	-55°C to 200°C
Temperature Coefficient up to 200°C:	0 +/- 30 ppm/°C	+15 -65% ΔC Max
Dissipation Factor @ 25°C:	.001 (0.1%) Max	.025 (2.5%) Max
Insulation Resistance, 25°C 200°C	> 100GΩ or > 1000ΩF > 1GΩ or > 10ΩF	> 100GΩ or > 1000ΩF > 1GΩ or > 10ΩF
Dielectric Withstanding Voltage: * Whichever is greater	< 200V, 250% 201-500V, 150% or 500V* > 500V, 120%, or 750V*	< 200V, 250% 201-500V, 150% or 500V* > 500V, 120%, or 750V*
Aging Rate:	0% per decade	< 2.0% per decade
Test Parameters:	1KHz, 1.0 +/- 0.2 VRMS, 25°C 1MHZ for Capacitance <100pF	1KHz, 1.0 +/- 0.2 VRMS, 25°C



## HOW TO ORDER

4540	E	104	M	250	LC	H
<b>SIZE</b> See Chart	<b>DIELECTRIC</b> D = 200°C COG E = 200°C Class II	<b>CAPACITANCE</b> Value in Picofarads Two significant figures, followed by number of zeros: 104 = 100,000pF	<b>TOLERANCE</b> F = 1% G = 2% COG only J = 5% K = 10% M = 20%	<b>VOLTAGE-VDCW</b> Two significant figures, followed by number of zeros: 250 = 25V	<b>TERMINALS</b> LC = Radial Ledded with Encapsulation LO = Radial Ledded No Encapsulation LP = Parylene Coating LG = Black Epoxy Coating	<b>HI TEMP SCREENING</b> Novacap High Temp Screen