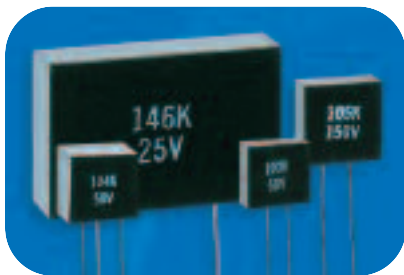
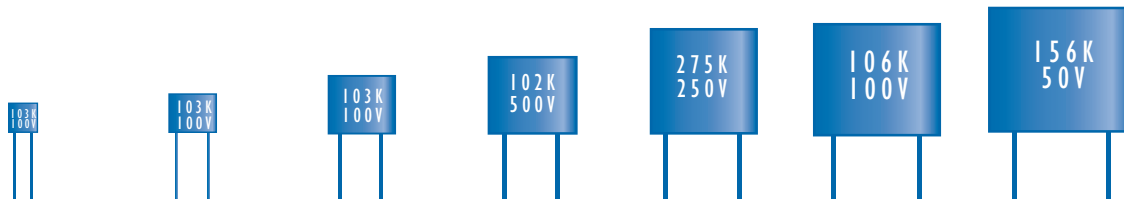
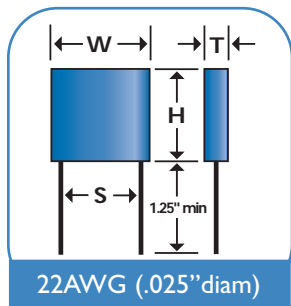




# LEADED HIGH TEMP. - ENCAPSULATED



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. These products are for use in very harsh environments, where isolation and protection of the device is required for optimum reliability. Product is available as encapsulated devices with 22 AWG tinned copper leads, in sizes 1515 to 7565, marked with capacitance and voltage ratings. Leaded product is also available without encapsulation. Consult NOVACAP if your specific requirements exceed our catalog maximums (size, cap. value, and voltage).



SIZE	1515	2520	3530	4540	5550	6560	7565
W ± .015	.300 (7.62)	.400 (10.2)	.500 (12.7)	.725 (18.4)	.795 (20.2)	.925 (23.5)	1.125 (28.6)
H ± .015	.300 (7.62)	.400 (10.2)	.500 (12.7)	.500 (12.7)	.745 (18.9)	.750 (19.0)	.750 (19.0)
T ± .015	.150 (3.81)	.200 (5.08)	.265 (6.73)	.325 (8.26)	.370 (9.40)	.350 (8.89)	.375 (9.52)
S ± .030	.170 (4.32)	.280 (7.10)	.380 (9.65)	.480 (12.2)	.580 (14.7)	.680 (17.3)	.780 (19.8)

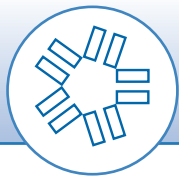
## "D" 200°C - COG DIELECTRIC

Min Cap	3R0	390	390	390	390	560	101
25V	183	563	104	184	224	334	394
50V	153	563	823	154	184	274	334
100V	562	273	563	104	154	224	274
250V	392	123	273	563	823	124	154
500V	152	562	123	273	393	563	823

## "E" 200°C - CLASS II DIELECTRIC

Min Cap	221	102	102	102	102	222	222
25V	564	225	395	565	106	156	186
50V	394	155	275	475	685	126	156
100V	124	824	185	335	565	825	106
250V	393	184	564	125	225	275	395
500V	822	393	823	224	334	474	684

NOTE: REFER TO PAGE 32 FOR HOW TO ORDER



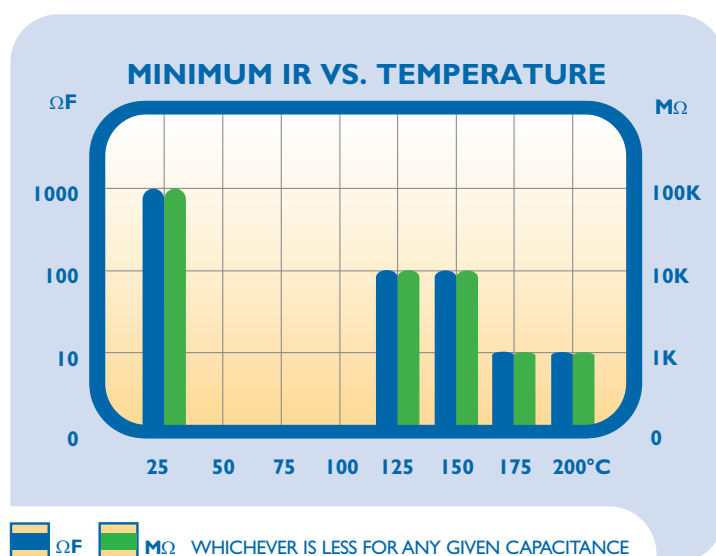
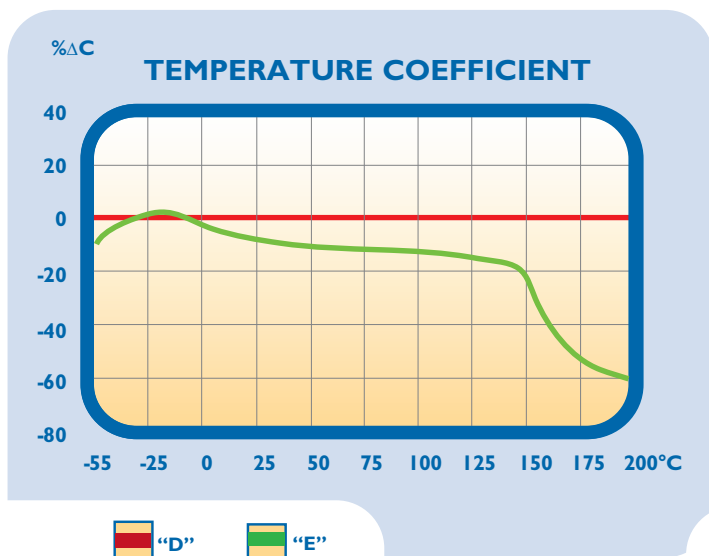
# 200°C - DIELECTRIC CHARACTERISTICS

## 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