

# PART NUMBER IDENTIFICATION

All capacitors produced by Illinois Capacitor follow a uniform part numbering system as indicated below:

	<u>687</u>	<u>LBA</u>	<u>400</u>	<u>M</u>	<u>W</u>	<u>EH</u>	
Section	1	2	3	4	5	6	7

Each part number consists of up to 7 sections with each section referencing a specific topic.

Section 1 - Capacitance Value -- This section consists of the first three digits of the part number.

1. Single section capacitors

Format 1 – For capacitances below 100000 uF. The first two digits represent the two most significant digits of the capacitance value. The third digit represents the amount of zeros to be placed after the significant digits. This expresses the capacitance in picofarads:

$$1 \text{ pf} = .001 \text{ nf} = .000001 \mu\text{F}$$

*Example:* 1  $\mu\text{F}$  = 1000 nf = 1000000 pf expressed as 105

2. Single section capacitors

Format 2 – Used for capacitances above 100000 uF, all screw terminal electrolytic capacitors and all supercapacitors. The first two digits represent the two most significant digits of the capacitance value. The third digit represents the amount of zeros to be placed after the significant digits. This expresses the capacitance in microfarads

*Example:* 150000  $\mu\text{F}$  = 150 mF expressed as 153

3. Multiple section capacitors - capacitors with multiple capacitors in a single container the capacitance will be expressed as:

Same capacitance for all sections Number of sections followed by an “X” and the capacitance of each section.

*Example:* 3 sections of 0.1uF would be expressed as “3X104”

Different capacitances would be expressed as number of sections followed by “D” followed by the total capacitance.

*Example:* 2 sections where 1 section has a capacitance of 0.1uF and the second section is 0.2uF. The capacitance would be expressed as “2D304”.

Capacitance value will be expressed following the requirements of single section capacitors.

Section 2 - represents the capacitor series.

Section 3 - is the voltage rating. This can be AC or DC. DC expression is standard unless otherwise indicated. AC expressions can be numeric or alphanumeric. Voltage values of 1000V and up will be expressed by having the first two significant digits in the 7th and 8th positions. The 9th position value represents the amount of zeros to be added to represent the voltage value.

*Examples:* 10000V would be expressed as 103  
1500V would be expressed as 152

430VAC/400VAC/320VAC would be expressed as A02. See product listing for proper voltage code.

275VAC would be expressed as 275

Section 4 - Capacitance Tolerance -- This represents the allowed capacitance tolerance for the capacitor.

Section 5 - Lead style indicator – Indicates the type of lead used on the capacitor. Lead style only used when they capacitor can be supplied with multiple types of leads or a deviation from the standard leads. This section can be ignored for parts with only a single type of lead available.

Section 6 - This section is to be used for indicating the case size of the capacitor.

Section 7 - This section is for special order options such tape and reel or cut and formed leads.