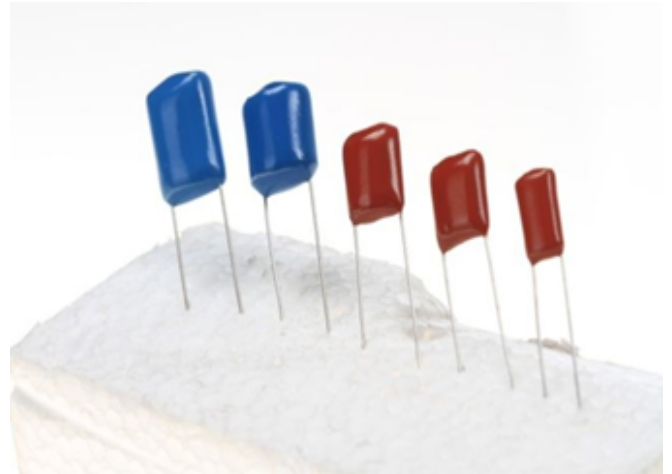


## ESP – Plain Polypropylene HV Self-Healing Inductive Capacitors

### Features

- **Epoxy Coated** – Brown colour
- **Dielectric**–Low Loss Polypropylene Film
- **Electrode** - Aluminium Foil internal series
- **Leads** - Radial Tin coated Copper clad Steel Wires
- **Construction**–Inductive design, Resin dipped
- **Markings**–ESP, Capacitance, Voltage, Type
- **Capacitor Tolerance** - 10% (K), 5% (J)
- **Dissipation Factor**  $\leq 0.05\%$  at 1KHz at 25°C
- **Test Voltage** –  $2 \times V_r$  for 2 sec
- **Max Pulse Rise** -  $1000V/\mu s$
- **Low Height** – ensures proper fitment
- **Temperature Range** from  $-55^\circ C$  to  $+105^\circ C$
- **Insulation Resistance**  $\geq 50$  GOhms at 500VDC (after 1 min at 25°C)



### Application

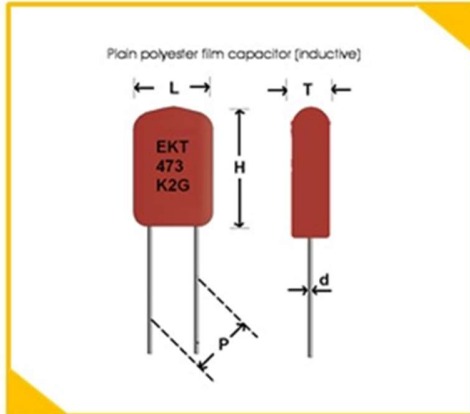
- Suited for light duty pulse,
- Logic & Timing Circuits
- Lighting Applications
- High Frequency Circuits
- Electronic Ballasts
- Long Life ensured by self-healing



### Life Testing

- Loaded at 1.5 times of rated DC voltage at  $+85^\circ C$  for 1000 hrs
- After the test – Change in Capacitance  $\Delta c/c \leq 5\%$  of initial value.
  - Change in  $\tan \delta \leq 0.001$  or 1.2 times the value before test, whichever is higher
  - Insulation Resistance  $\geq 50\%$  of initial value

## ESP – Plain Polypropylene HV Self-Healing Inductive Capacitors



### Dimensions

Rated Voltage (DC)	Rated Capacitance		Max Dimensions (mm)					Min PCK (qty)
	uF	Code	T Max	H Max	L Max	d ± 0.05	P ± 0.05	
630V 2J	0.001	102	3.5	12.0	7.0	0.5	5.5	1000
	0.0022	222	4	12.5	7.5	0.5	6	1000
	0.0047	472	4.5	12.5	8.5	0.5	6	1000
	0.0056	562	5	12	9	0.5	7	1000
	0.0068	682	5	12.5	9.5	0.5	7	1000
1kV 3A	0.0100	103	4.5	11.7	8	0.5	5	1000
1250V 3B	0.0022	222	3.5	13.5	7.5	0.5	6.5	1000
	0.0033	332	4	13.5	8	0.5	6.5	1000
	0.0047	472	4.5	13.5	8	0.5	7	1000
	0.0056	562	5	13.5	8.5	0.5	7.5	500
	0.0068	682	5	13.5	8.5	0.5	7.5	500
1600V 3C	0.0022	222	4	13.5	9	0.5	6	1000
	0.0033	332	4.5	13.5	9	0.5	6	500
	0.0047	472	5.5	13.5	11	0.5	7	500
	0.0056	562	6	13.5	11.5	0.5	7.5	500
	0.0068	682	6	13.5	11.5	0.5	7.5	500

- Custom Values are also available on request
- Bulk or Ammo packing as per request

**Derating graph for ESP – Plain Polypropylene HV Self-Healing Inductive Capacitors**

**Max. Voltage (Vrms) vs. Frequency**  
(Sinusoidal Waveform at  $T \leq 85^\circ\text{C}$ )

**Max. Current (Irms) vs. Frequency**  
(Sinusoidal Waveform at  $T \leq 85^\circ\text{C}$ )

