

What is a series compensation capacitor?

“Series” compensation. of the mains (420-440 V) and a temperature range of -25°C to $+85^{\circ}\text{C}$, up to 100°C for some applications. It must also be considered that a switch-on voltage transients may occur on the capacitor; their size depends on the type of lamp and they must be considered when selecting the capacitor.

What is the tolerance of a capacitor?

The capacitors used generally have tolerance on the rated capacity of $\pm 10\%$, operating voltage 230 V and 250 V, and a temperature range of -25°C to $+85^{\circ}\text{C}$, up to 100°C for some applications. “Series” compensation. of the mains (420-440 V) and a temperature range of -25°C to $+85^{\circ}\text{C}$, up to 100°C for some applications.

Does a capacitor need a discharge resistor?

It must also be remembered that since the capacitor may remain charged for a long period after the lamp has been switched off, each capacitor must be fitted with a discharge resistor.

Which capacitor is used as a decoupling capacitor for U2?

C4, 0.1 mF 16 V acts as a decoupling capacitor for U2. The resistor values are calculated using Equation 2. Substituting LED as 18 V and R5 as 12 K, R4 equals 49.7 K. A standard value of 47 K is chosen. Ceramic Capacitor C3, 1 nF 16 V is kept across R5 for noise immunity.

Can a capacitor withstand a steep wavefront?

The capacitors are capable of withstanding steep wavefronts with a maximum voltage variation speed of 20 V/ms (dv/dt). The very widescale use in all sectors of fluorescent lamps implies particular care over safety requirements. of the accident.

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A tricolor fluorescent lamp operating on a DC power source is disclosed herein. The lamp comprises an outer envelop defining therein a sealed space in which an ionizable medium is filled at low pressure.

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