



## **Film Capacitors**

### **Series/Type:**

Metallized Polypropylene Film Capacitors - Energy Discharge capacitor

## Overview

The 397 series capacitor is a polypropylene metallized film capacitor designed for High voltage energy discharge.

## Applications

This series is designed for Medical Defibrillator devices where high energy discharge is required.

## Benefits

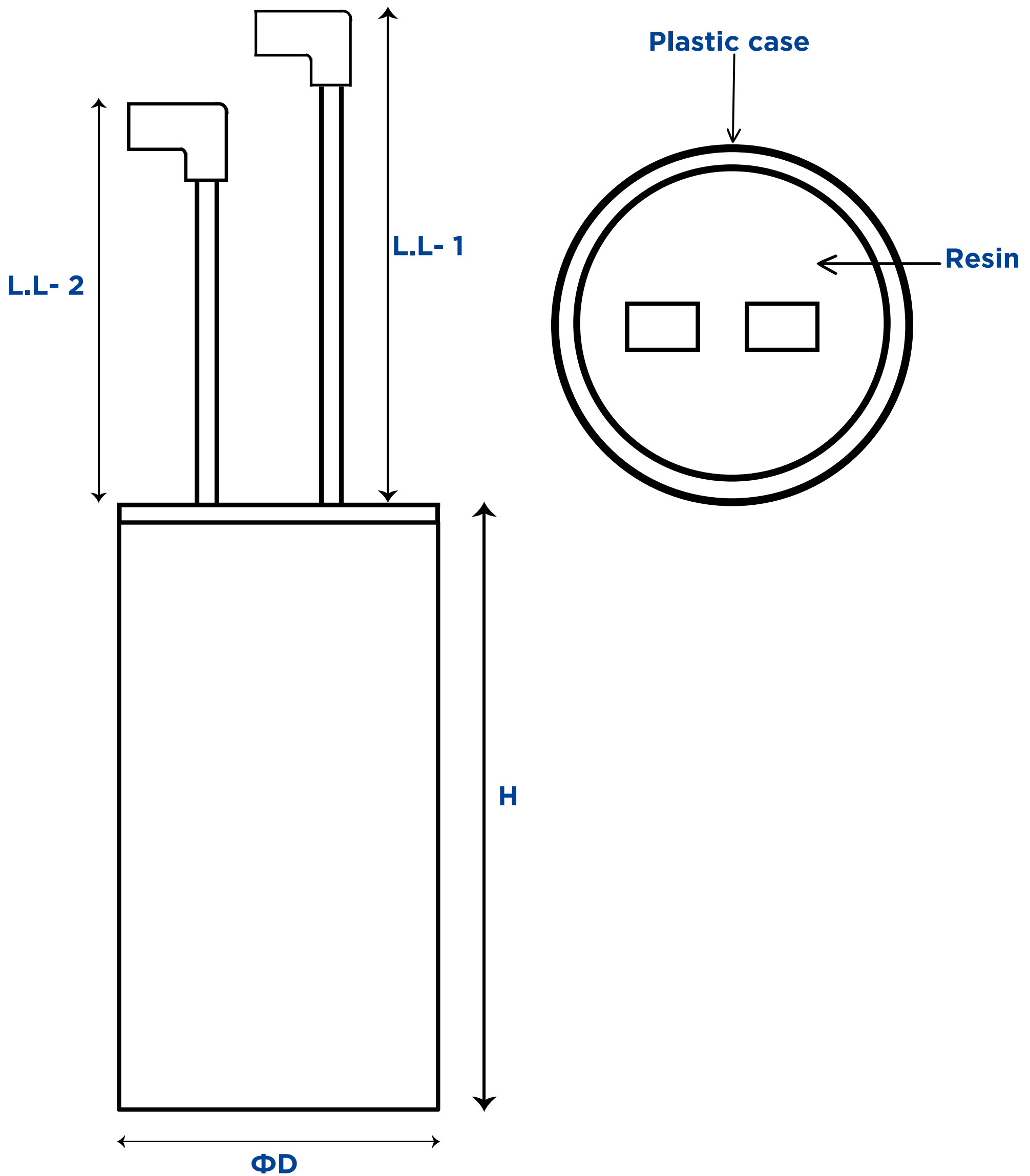
- High energy discharge capacity
- Good self-healing property
- Low Losses and high current capability
- Long useful life

## Part Number System

<b>397</b>	<b>107</b>	<b>K</b>	<b>3A</b>	<b>1</b>	<b>A</b>
Series Code	Rated Capacitance Value	Rated Cap. Tolerance	Rated* Voltage	Packing Type	Design Reference
Energy Discharge Capacitor	Three-digit (257) indicate rated capacitance in Pico Farad (First two digits indicate value & third digit indicates number of zeroes to be suffixed to first two digits)	J = $\pm 5\%$ K = $\pm 10\%$	2I - 450 2H - 500 2V - 600 2K - 700 2L - 800 2N - 900 3A - 1000 2O - 1100 2P - 1200 3U - 300 2X - 1400 3R - 1500 3C - 1600	Bulk	Internal code

\*Other voltage available on request

## Design



\*Dimension upon request

## General Technical Data

Dielectric	Metallized Polypropylene film
Application	Energy Discharge capacitor for Defibrillator
Technology	non-inductive type, self-healing property
Climatic Category	40/85/56
Temperature Range	0 to +55°C (High temperature upon request)
Standard	IEC 60601-2-4
Resin Filling	Epoxy Resin
Terminals	Straight faston, Flag faston, Stripped. Other terminal cables upon request.
Cable	Silicon rubber cables 22 AWG - 10 kV DC - 150 °C

## Electrical Parameters

Rated Capacitance	32 $\mu$ F to 200 $\mu$ F
Rated Voltage (VN DC)	Up to 5000 VDC
Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K) measured at T = +25°C $\pm 5^\circ$ C
Insulation resistance Rins given as time constant $\tau = CR$ . Rins	$\tau > 10,000$ s (60 s), 100 V
Voltage proof test between terminals	1.1 x VN DC, 10s
Voltage proof test between terminal and case	2110 VAC, 50Hz, 10s

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## Disclaimer

All our capacitors are designed, manufactured and tested to specifications. We strictly adhere to standards in procurement of materials, in the laid down manufacturing processes and consistently apply stringent process controls and testing parameters. This ensures that our capacitors always perform to the offered specifications. Appropriateness of use in a specific circuit and fitness to a particular application however needs to be verified and its reliability through expected lifetime is required to be validated by the customer. Deki's responsibility is limited to ensuring that the capacitor performs as claimed in the specification/ data sheets provided by Deki. Deki specifically disclaims any implied warranties of fitness for any particular purpose. Liability, in any case is limited to the price paid for the capacitors.