

## Capacitors Modules :

### 3.4 Dual-Capacitance Capacitors :

This series of Motor Run Capacitors content two independent capacitors in a single-housing.

A typical application is in the air conditioning units where capacitors are required for both compressor and fan motors.

#### Constructions :

Self-healing, low loss metallized polypropylene

Cylindrical or Box Plastic Case : self-extinguishing (UL94-V0 grade) plastic

Optional : Thermoplastic Plastic Case – so that the capacitor can be operated at a higher temperature range and harsh working environment

Resin : self-extinguishing (UL94-V0 grade)

Size : Diameter : 30-65mm / High : 65-118mm

Box : Width: 32-60 High: 20-38 Thickness : 14-26mm

#### Properties :

Non inductive, Low Dissipation Factor, high Insulation Resistance, Self-Healing, spaces efficient.

Providing different connections and mounting options so as to increase your design flexibility.

#### Electrical Connections :

Soldering terminal

Quick terminal

Stiff wire

Flexible wire

Core cable

Wire or cable with receptacle or terminal

Tin plated copper lead wire (Box type only)

#### Mounting systems :

Cylindrical Plastic Case : with Stud -M8 / without Stud

Box Plastic Case : Screw mounting tab / without Screw mounting tab

#### Reference standards :

EN60252-1994, UL810, CSA C 22.2, JIS : 4908-1995

#### Electrical Characteristics :

**Capacitance range** : 0.1uF - 10uF + 0.1uF - 60uF

**Rated Voltage** : 125Vac, 220Vac, 250Vac, 370Vac, 400Vac, 450Vac, 500Vac, 600Vac

Circuit for the capacitors can be customized design

**Capacitance Tolerance** : +/-5%; +/-10%

**Dissipation factor (DF)** < 0.002 at 23C 50/60Hz

**Insulation Resistance** : Terminal – Terminal >5000M ohm uF

Terminal – Case >1000M ohm uF

**Temperature range** : -25C - +85C / -40C - +105C

**Rated frequency** : 50 - 60Hz

**Testing Voltage** : Terminal – Terminal : 2.15 x U<sub>n</sub> 10sec (can be customized design)

Terminal – Case : 3000AC 10sec

**Pulse Voltage rise & fall time dV/dt** : detail information available on request



The combination of Capacitance value, Voltage, Dimension or even connection between Capacitors, please contact us for a design suited to your particular needs.

### 3.5 Multi-Capacitance Capacitors :

This series of Capacitors are intent to provide more than two capacitance in a single-housing.

Suitable for multi-speed control or improve output torque for Motor - Fan Speed Regulator and Motor Speed Regulator

#### Constructions :

Self-healing, low loss metallized polypropylene

Cylindrical or Box Plastic Case : self-extinguishing (UL94-V0 grade) plastic

Optional : Thermoplastic Plastic Case – so that the capacitor can be operated at a higher temperature range and harsh working environment

Resin : self-extinguishing (UL94-V0 grade)

The inner connection and the capacitance can be tailor made according to the application

#### Properties :

Non inductive, Low Dissipation Factor, high Insulation Resistance, Self-Healing, spaces efficient.

Providing different connections and mounting options so as to increase your design flexibility.

#### Electrical Connections :

Soldering terminal

Quick terminals

Stiff wire

Flexible wire

core cable

Wire or cable with receptacle or terminal

Tin plated copper lead wire (Box type only)

#### Mounting systems :

Cylindrical Plastic Case : with Stud - M8 / without Stud

Box Plastic Case : Screw mounting tab / without Screw mounting tab

#### Reference standards :

EN60252-1994, UL810, CSA C 22.2, JIS : 4908-1995

#### Electrical Characteristics :

**Capacitance range** : customer design

**Rated Voltage** : 220Vac, 250Vac, 370Vac, 400Vac, 450Vac, 500Vac, 600Vac

Circuit for the capacitors can be customized design

**Capacitance Tolerance** : +/-5%; +/-10%

**Dissipation factor (DF)** < 0.002 at 23C 50/60Hz

**Insulation Resistance** : Terminal – Terminal >5000M ohm uF

Terminal – Case >1000M ohm uF

**Temperature range** : -25C - +70C / -40 C~ +85C / -40C - +105C

**Rated frequency** : 50 - 60Hz

**Testing Voltage** : Terminal – Terminal :  $2.15 \times U_n$  10sec (can be customized design)

Terminal – Case : 3000AC 10sec

**Pulse Voltage rise & fall time** dV/dt : detail information available on request



The combination of Capacitance value, Voltage, Dimension or even connection between Capacitors, please contact us for a design suited to your particular needs.