

# Datasheet

## RS MRP440 5µF Polypropylene Film Capacitor 440 V ac ±10%, Screw Mount 30mm

RS Stock 196-4775



### Specifications

- These metallised polypropylene capacitors are particularly suited for AC voltages.
- This range of metallised polypropylene film capacitors offer excellent self healing properties
- They are designed for permanent connection in the auxiliary windings of single phase induction motors.
- They are also suitable for use with star connected three phase motors operating on a single phase supply.
- Typical conditions for this range of capacitors include domestic appliances pumps and office machinery.

|                             |                          |
|-----------------------------|--------------------------|
| Nominal Operating Voltage   | 440 V AC                 |
| Nominal Frequency           | 50/60Hz                  |
| Capacitance Range           | 1-30µF                   |
| Capacitance Tolerance       | ± 10%                    |
| Operating Temperature Range | -25°C to +85°C           |
| Climatic Category           | 25/85/21                 |
| Dissipation Factor (tan)    | < 0.0015 Typical at 1kHz |
| Between Terminals           | 1.5 x working voltage    |
| Termination to can          | 2000 V AC                |

Ripple Current

$$I_{MAX} = \sqrt{\frac{P_{MAX}}{ESR}}$$

$I_{MAX}$  = Maximum allowable rms value of ripple current (amps)  
 $P_{MAX}$  = Maximum power that a capacitor can dissipate (watts)  
 ESR = Equivalent series resistance (ohms)