

## PPR RANGE

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## PPR RANGE

The PPR range are in the form of a hermetically sealed rectangular Polypropylene case. Standard terminations are M10 threaded inserts.

## SPECIFICATIONS

The PPR range of capacitors utilise a mixed dielectric material that consists of polyester or polypropylene film and capacitor paper and are impregnated and filled with a mineral oil. The container is a robust rectangular polypropylene case. The internal construction is designed to prevent movement when the capacitor is subjected to mechanical shock or vibration. An inert welding process ensures hermetic sealing. Standard terminations are

M10 threaded inserts as the plastic case eliminates the need for large high voltage *stand-off* terminals. (Other terminal types are available on request). The case has an extremely low affinity for moisture and is resistant to virtually all electrical environments. Brackets can be welded on as required.

**NOTE:** The impregnant used is a non toxic highly refined, purified and inhibited mineral oil.

**APPLICATIONS:** The PPR range is designed specifically for DC applications such as filters, bypass, coupling, rapid discharge, pulse forming networks and high voltage power supplies such as those found in radar, laser and X-ray equipment. They are particularly suited for use in portable equipment.

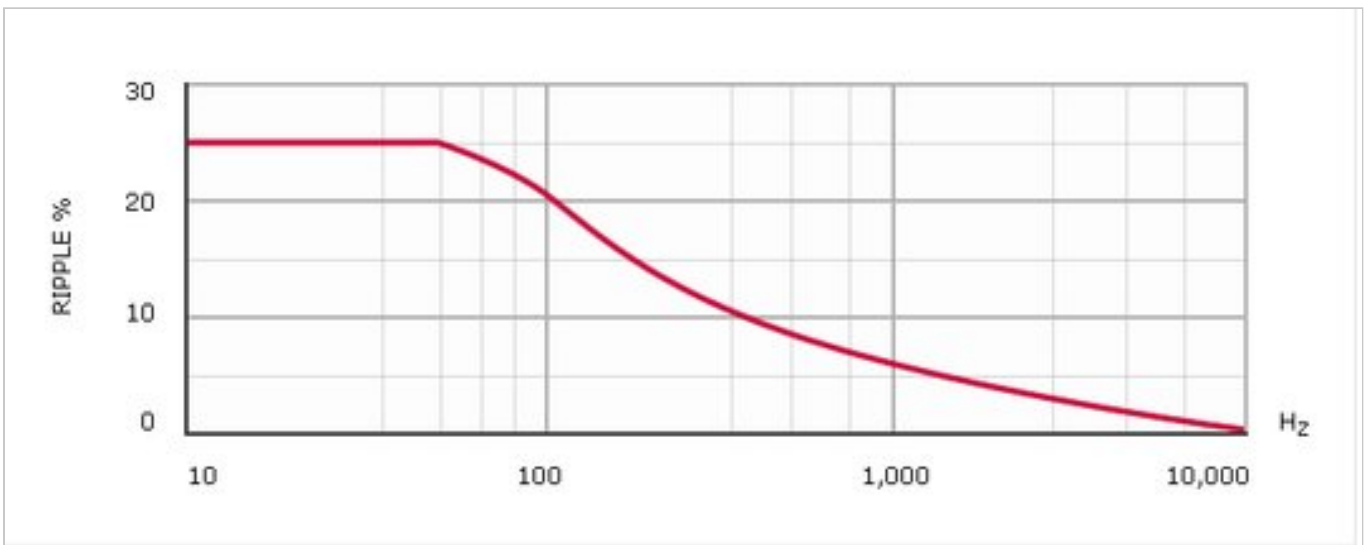
**Capacitance Range:** 0.002 $\mu$ F – 100 $\mu$ F. The tolerance is +/-10%. Other tolerances are available on request. Nominal values measured at 1kHz.

**Temperature Range:** -40°C to 85°C. The nominal voltage rating is applicable from -55°C to 85°C. Derating is required for higher operating temperatures.

**Temperature Coefficient:** Capacitance will increase by 2% per 100°C temperature change.

**Voltage Range:** 1kVDC – 300kVDC

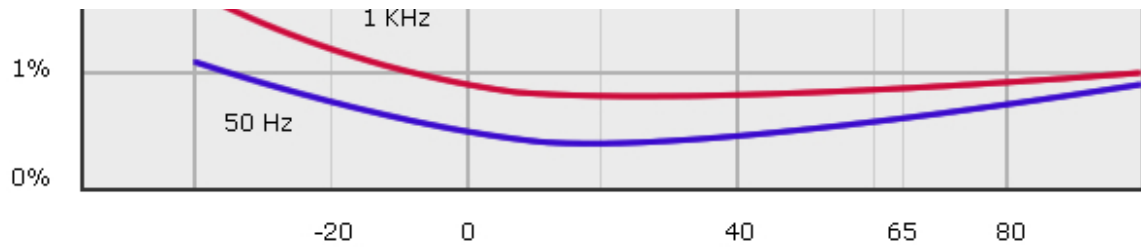
## RIPPLE:



Ripple: The sum of the peak ripple voltage and the DC voltage should not exceed the rated voltage. The graph above shows permissible peak-to-peak ripple voltage as a percentage of rated voltage for various frequencies.

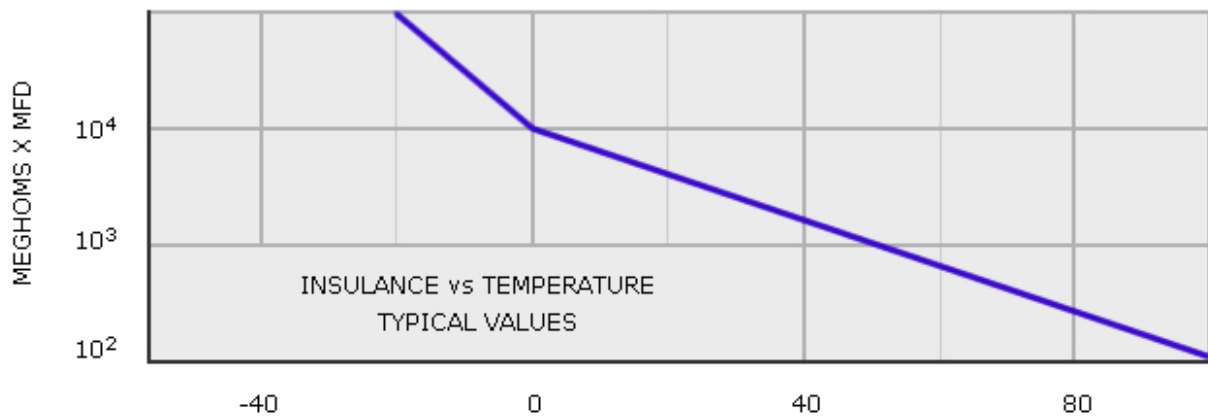
## POWER FACTOR





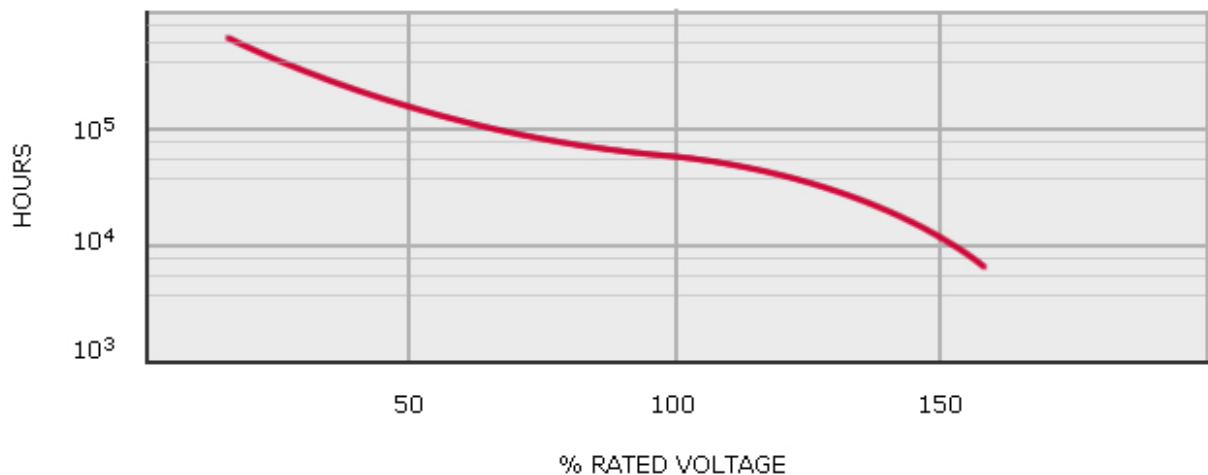
Power Factor: Variable; function of temperature and frequency. See fig 2. Nominal value < 0.5% at 20°C.

## DIELECTRIC RESISTANCE



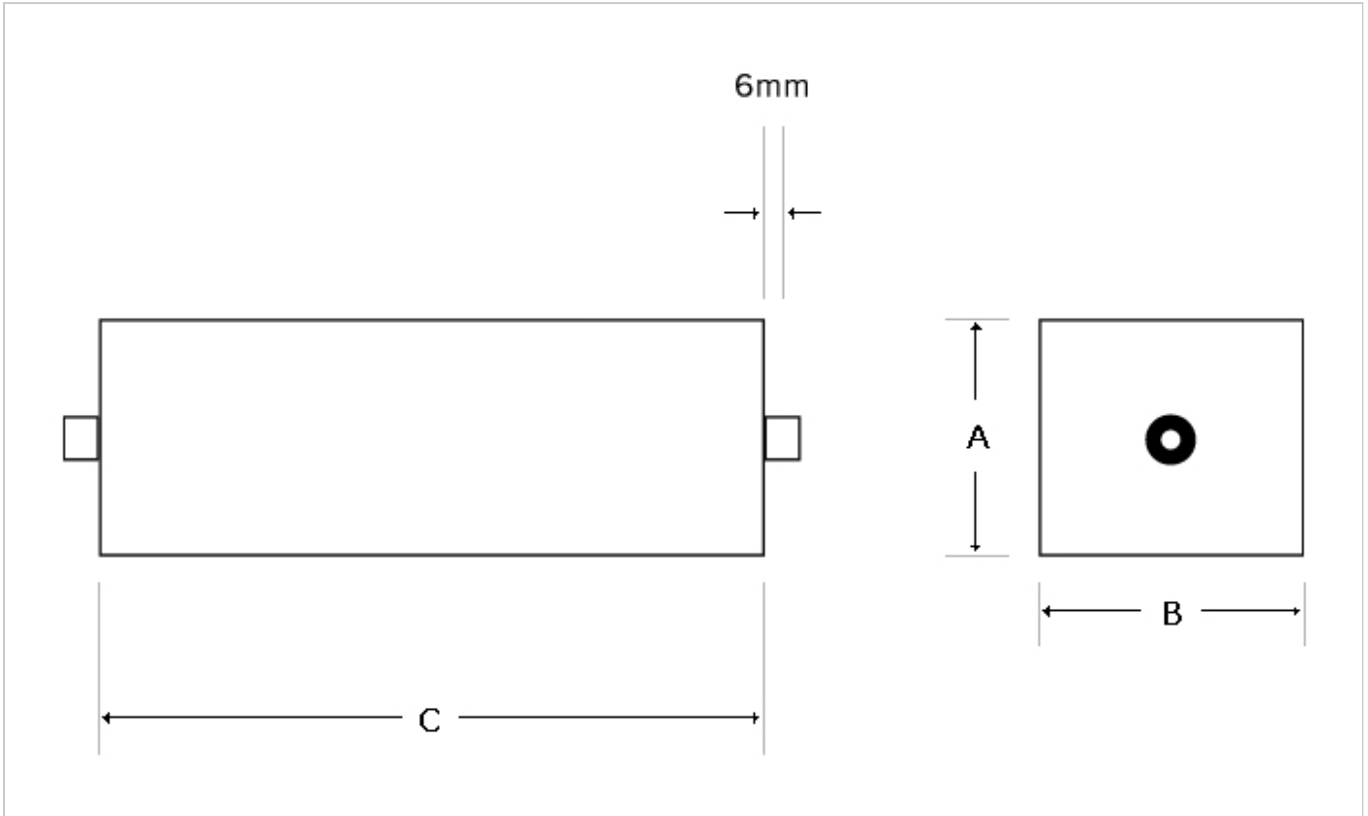
Dielectric Resistance: (Parallel resistance) Indicated by the graph of insulance (Mohms x  $\mu$ F) vs Temperature (fig 3). The insulance(Mohms x  $\mu$ F) is nominally 10000s at +20°C. (Measurements taken after 1 minute with an applied voltage of 500V).

## LIFE EXPECTANCY



Life expectancy: PPR type capacitors are designed for a life expectancy of 50000 hours at 65°C. To achieve the same life expectancy at 85°C derate to 60% of rated voltage.

## DIMENSIONS



### SELECT WORKING VOLTAGE:

PPR Dimensions



Part Number	Cap uF	DC Kilo-Volts	A	B	C
PPR 150-104	0.1	15	75	75	142
PPR 200-504	0.5	20	100	130	200
PPR 300-504	0.5	30	130	220	185
PPR 320-104	0.1	32	110	110	180
PPR 350-104	0.1	35	90	100	190

PPR 350-204	0.2	35	110	120	218
PPR 350-504	0.5	35	110	130	440
PPR 400-304	0.3	40	110	150	320
PPR 450-254	0.25	45	100	130	380
PPR 500-103	0.01	50	70	90	245
PPR 500-104	0.1	50	115	130	275
PPR 500-504	0.5	50	175	235	280
PPR 600-403	0.04	60	90	100	235
PPR 650-104	0.1	65	110	120	318
PPR 750-503	0.05	75	80	110	365
PPR 750-104	0.1	75	115	130	365
PPR 750-254	0.25	75	175	190	365
PPR 1000-253	0.025	100	80	90	420
PPR 1000-403	0.04	100	120	200	285
PPR 1000-104	0.1	100	125	175	445
PPR 1500-103	0.01	150	90	100	340
PPR 1500-203	0.02	150	90	100	560
PPR 2000-502	0.005	200	90	90	385
PPR 3000-252	0.0025	300	70	95	555

**NOTES:**

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