# INDUCTIVE SELF HEALING POLYPROPYLENE CAPACITOR
# DPSH CAPACITORS

**CONSTRUCTION**:
Film/foil inductive type internally series construction with aluminum foil as electrode and polypropylene (PP) film dielectric and MPP Film as connecting electrode, coated with flame retardant epoxy resin.

**Capacitance range:**
0.001 µF to 0.01 µF

**Rated voltages:**
1250 VDC / 500 VAC , 1600 VDC /500 VAC , 2000VDC /500 VAC

**Capacitance tolerances:**
±5%, ±10%

**Applicable specification:**
IEC 384-17

**Operating temperature range:**
-40°C to +105°C

**PITCH:**
5 MM, 7.5 MM

**Voltage proof:**
1.6 times the rated voltage for 2 sec

**Insulation resistance** at +20°C: > 100000 MΩ

**Tan δ:** 0.1% at 1 kHz and 0.4% at 100 kHz.

**Voltage derating:**
For temperatures between +85°C and +105°C a decreasing factor of 1.25% per degree °C on the rated voltage Ur (d.c. and a.c.) has to be applied.

**Endurance Test:**

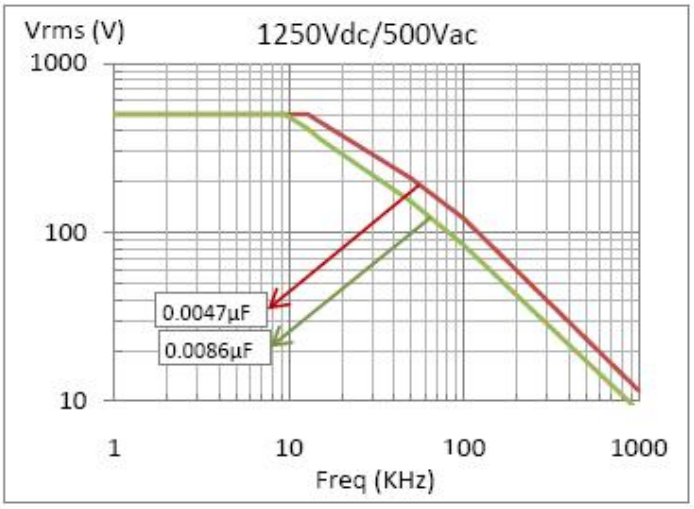
**Test conditions (DC)**
Temperature : +85°C±2°C
Test duration : 1000 h
Voltage applied: 1.25 x $U_R$ (DC)

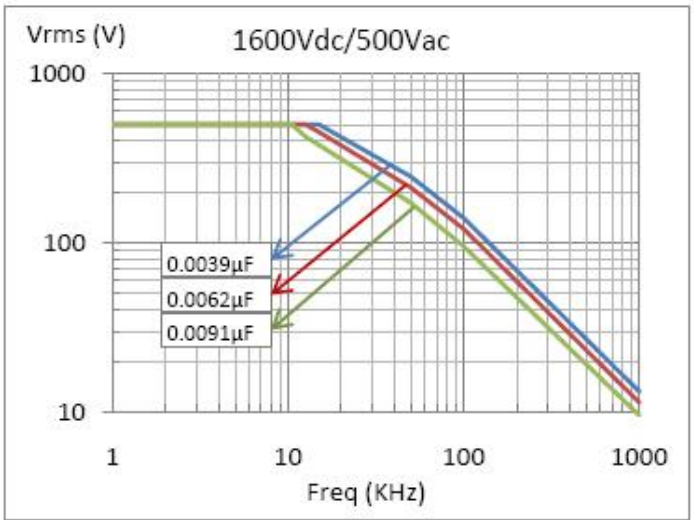
**Performance**
Capacitance change |ΔC/C| : ≤5%
DF change (Δtgδ) : 1.4 times value measured before the test.
Insulation resistance : ≥50% of initial limit.

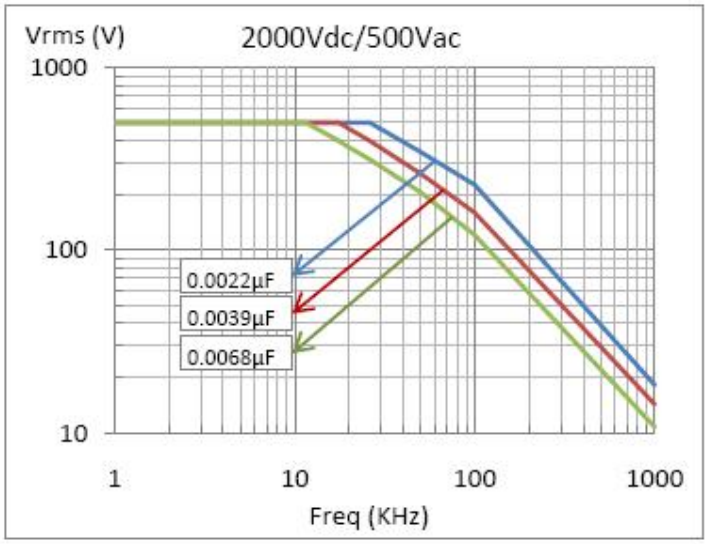
**Test conditions ( AC)**
Temperature : +85°C±2°C
Test duration : 1000 h
Voltage applied: 1.25 x $U_R$(AC)

**Performance**
Capacitance change |ΔC/C|: ≤5%
DF change (Δtgδ) : 1.4 times value measured before the test.
Insulation resistance : ≥50% of initial limit.

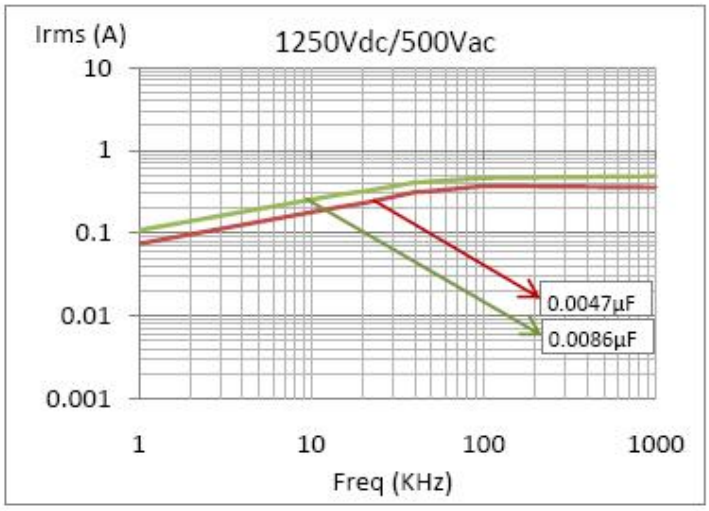
Max.Voltage (Vrms) Vs Frequency
(Sinusoidal Waveform at T ≤ 40°C)

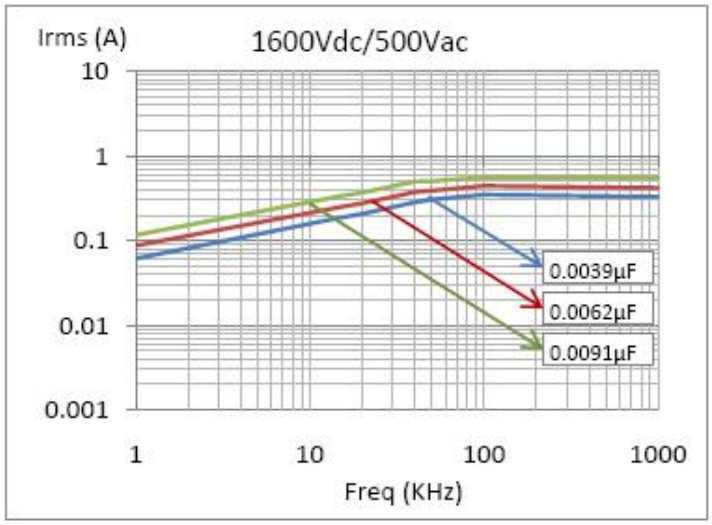


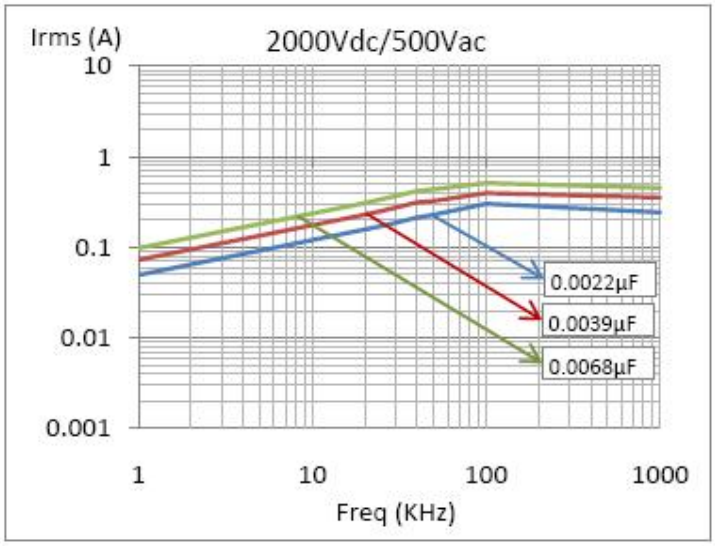




Max. Current (Irms) Vs Frequency
(Sinusoidal Waveform at T ≤ 40°C)



Ordering code:

| Rated Voltage | Rated Cap (µf.) | Dimension Max (mm) W | H | L | d ±0.05 | S ±0.05 | Dv/dt V/µs | wt gm | Ordering Code | Packing units Bulk |
|---|---|---|---|---|---|---|---|---|---|---|
| 1250 VDC | 0.0027 | 5 | 17.5 | 8 | 0.5 | 5±0.5 | 10000 | 0.5 | 70 272 + 3B * ^ | 500 |
| | 0.0033 | 5 | 17.5 | 8 | 0.5 | 5±0.5 | 10000 | 0.57 | 70 332 + 3B * ^ | 500 |
| | 0.0039 | 5.5 | 17.5 | 8.5 | 0.5 | 5±0.5 | 10000 | 0.68 | 70 392 + 3B * ^ | 500 |
| | 0.0047 | 5.5 | 17.5 | 9 | 0.5 | 5±0.5 | 10000 | 0.77 | 70 472 + 3B * ^ | 500 |
| | 0.0056 | 5.5 | 17.5 | 9.5 | 0.5 | 5±0.5 | 10000 | 0.82 | 70 562 + 3B * ^ | 500 |
| | 0.0068 | 6.5 | 17.5 | 10 | 0.5 | 7±0.5 | 10000 | 0.91 | 70 682 + 3B * ^ | 500 |
| | 0.0086 | 6.5 | 17.5 | 10 | 0.5 | 7±0.5 | 10000 | 1.07 | 70 862 + 3B * ^ | 500 |
| | 0.01 | 7 | 17.5 | 10.5 | 0.5 | 7.5±0.5 | 10000 | 1.192 | 70 103 + 3B * ^ | 500 |
| 1600 VDC | 0.0039 | 6.5 | 17.5 | 9.5 | 0.5 | 5.0±0.5 | 10000 | 0.86 | 70 392 + 3C * ^ | 500 |
| | 0.0047 | 5.17 | 15.97 | 8.72 | 0.5 | 5.0±0.5 | 10000 | 0.97 | 70 472 + 3C * ^ | 500 |
| | 0.0056 | 6.5 | 17.5 | 11 | 0.5 | 7.0±0.5 | 10000 | 1.07 | 70 562 + 3C * ^ | 500 |
| | 0.0062 | 6.5 | 17.5 | 11 | 0.5 | 7.5±0.5 | 10000 | 1.1 | 70 622 + 3C * ^ | 500 |
| | 0.0068 | 7 | 17.5 | 11 | 0.5 | 7±0.5 | 10000 | 1.14 | 70 682 + 3C * ^ | 500 |
| | 0.0082 | 7.5 | 17.5 | 11 | 0.5 | 7±0.5 | 10000 | 1.27 | 70 822 + 3C * ^ | 500 |
| | 0.0086 | 8 | 17.5 | 11.5 | 0.5 | 7±0.5 | 10000 | 1.34 | 70 862 + 3C * ^ | 500 |
| | 0.01 | 8.5 | 18 | 12.5 | 0.5 | 7±0.5 | 10000 | 1.49 | 70 103 + 3C * ^ | 500 |
| 2000 VDC | 0.0015 | 5.5 | 18 | 8.5 | 0.5 | 5.0±0.5 | 10000 | 0.55 | 70 152 + 3D * ^ | 500 |
| | 0.0022 | 6 | 18 | 9 | 0.5 | 5.0±0.5 | 10000 | 0.64 | 70 222 + 3D * ^ | 500 |
| | 0.0033 | 6.5 | 18 | 10 | 0.5 | 5.0±0.5 | 10000 | 0.82 | 70 332 + 3D * ^ | 500 |
| | 0.0047 | 7.5 | 18 | 11 | 0.5 | 7.5±0.5 | 10000 | 1.13 | 70 472 + 3D * ^ | 500 |
| | 0.0056 | 8.5 | 18 | 11.5 | 0.5 | 7.5±0.5 | 10000 | 1.24 | 70 562 + 3D * ^ | 500 |
| | 0.0068 | 9.5 | 18 | 12.5 | 0.5 | 7.5±0.5 | 10000 | 1.33 | 70 682 + 3D * ^ | 500 |
| | 0.01 | 10 | 18 | 14 | 0.5 | 7.5±0.5 | 10000 | 1.74 | 70 103 + 3D * ^ | 500 |

## ADVANTAGES:

- Self healing
- Available in 5 mm and 7.5 mm pitch
- Improved AC rating,
- High IR
- Good current carrying capability
- Better reliability