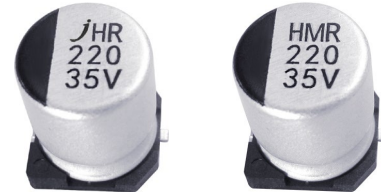


Conductive Polymer Hybrid Capacitor - JHR

FEATURES

- ϕ 6.3 ~ ϕ 10, 125°C, 4000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Can meet IATF16949
- Can meet AEC-Q200 compliant



SPECIFICATIONS

Category temp. range -55°C to +125°C
 Capacitance tolerance $\pm 20\%$ (120Hz / +20°C)
 Leakage current $I \leq 0.01$ CV or $3\mu A$ whichever is greater (after 2 minutes)
 Tan δ Please see the attached characteristics list

| Characteristics at low temperature | Rated Voltage (V) | 25 | 35 | 50 | 63 | 80 | Impedance Ratio 120HZ |
|------------------------------------|-----------------------|-----|-----|-----|-----|-----|--------------------------|
| | Z (-25°C) / Z (+20°C) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| | Z (-55°C) / Z (+20°C) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | |

After applying rated working voltage and rated ripple current for 4000 hours at +125°C \pm 2°C, and then being stabilized at +20°C, capacitors shall meet the following limits.

| Endurance | Capacitance change | Within $\pm 30\%$ of the initial value |
|-----------|------------------------------------|--|
| | Dissipation factor (tan δ) | Less than 200% of the initial value |
| | ESR | Less than 200% of the initial value |
| | Leakage current | Within the initial limit |

Shelf life
 After storage for 1000 h at +125°C \pm 2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in endurance.

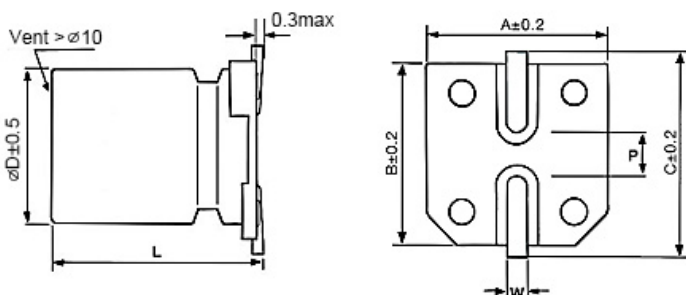
After reflow soldering and then being stabilized at +20°C, capacitors shall meet the following limits.

| Resistance to soldering heat | Capacitance change | Within $\pm 10\%$ of the initial value |
|------------------------------|------------------------------------|--|
| | Dissipation factor (tan δ) | Within the initial limit |
| | ESR | Within the initial limit |
| | Leakage current | Within the initial limit |

| Frequency correction factor for ripple current | Frequency | 120 \leq f < 1k | 1k \leq f < 10k | 10k \leq f < 100k | 100k \leq f < 500k |
|--|-------------------|-------------------|-------------------|---------------------|----------------------|
| | Correction Factor | 0.1 | 0.3 | 0.6 | 1.0 |

DRAWING (Unit: mm)

Surface Marking Types: jHR, HMR



| Dimensions | | | | | | Unit: mm |
|------------|----------------|------|------|------|---------|-------------|
| ϕD | L | A | B | C | W | P \pm 0.2 |
| 6.3 | 6 \pm 0.5 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 2.0 |
| 6.3 | 7.7 \pm 0.5 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 2.0 |
| 8 | 6.5 \pm 0.5 | 8.3 | 8.3 | 9.2 | 0.7~1.2 | 3.2 |
| 8 | 10 \pm 0.5 | 8.3 | 8.3 | 9.2 | 0.7~1.2 | 3.2 |
| 10 | 10.5 \pm 0.5 | 10.3 | 10.3 | 11.2 | 0.7~1.2 | 4.4 |

Please visit our website to get more update data, those data & specification are subject to change without notice.

Conductive Polymer Hybrid Capacitor - JHR

| Rated voltage (V) | Capacitance (±20%)(μF) | Case size | | Specification | | |
|-------------------|------------------------|-----------|-------|--|-----------------------|--------------------|
| | | øD(mm) | L(mm) | Rated ripple current ^① (mA rms) | ESR ^② (mΩ) | tan δ ^③ |
| 25 | 47 | 6.3 | 6 | 900 | 50 | 0.14 |
| | 56 | 6.3 | 6 | 900 | 50 | 0.14 |
| | 68 | 6.3 | 6 | 900 | 50 | 0.14 |
| | | 6.3 | 7.7 | 1400 | 30 | 0.14 |
| | 82 | 6.3 | 6 | 900 | 50 | 0.14 |
| | 100 | 6.3 | 7.7 | 1400 | 30 | 0.14 |
| | 150 | 6.3 | 7.7 | 1400 | 30 | 0.14 |
| | | 8 | 10 | 1600 | 27 | 0.14 |
| | 220 | 8 | 10 | 1600 | 27 | 0.14 |
| | 270 | 8 | 10 | 1600 | 27 | 0.14 |
| | 330 | 8 | 10 | 1600 | 27 | 0.14 |
| 10 | | 10.5 | 2000 | 20 | 0.14 | |
| 470 | 10 | 10.5 | 2000 | 20 | 0.14 | |
| 35 | 33 | 6.3 | 6 | 900 | 60 | 0.12 |
| | 47 | 6.3 | 6 | 900 | 60 | 0.12 |
| | 56 | 6.3 | 6 | 900 | 60 | 0.12 |
| | 68 | 6.3 | 7.7 | 1400 | 35 | 0.12 |
| | 100 | 6.3 | 7.7 | 1400 | 35 | 0.12 |
| | | 8 | 10 | 1600 | 27 | 0.12 |
| | 150 | 8 | 10 | 1600 | 27 | 0.12 |
| | 180 | 8 | 10 | 1600 | 27 | 0.12 |
| | 220 | 10 | 10.5 | 2000 | 20 | 0.12 |
| | 270 | 10 | 10.5 | 2000 | 20 | 0.12 |
| 330 | 10 | 10.5 | 2000 | 20 | 0.12 | |
| 50 | 22 | 6.3 | 6 | 750 | 80 | 0.10 |
| | 33 | 6.3 | 7.7 | 1100 | 40 | 0.10 |
| | 47 | 8 | 10 | 1250 | 30 | 0.10 |
| | 68 | 8 | 10 | 1250 | 30 | 0.10 |
| | 100 | 8 | 10 | 1250 | 30 | 0.10 |
| | | 10 | 10.5 | 1600 | 28 | 0.10 |
| | 120 | 10 | 10.5 | 1600 | 28 | 0.10 |
| | 150 | 10 | 10.5 | 1600 | 28 | 0.10 |
| 63 | 10 | 6.3 | 6 | 700 | 120 | 0.08 |
| | 22 | 6.3 | 7.7 | 900 | 80 | 0.08 |
| | 33 | 8 | 10 | 1100 | 40 | 0.08 |
| | 47 | 8 | 10 | 1100 | 40 | 0.08 |
| | 56 | 10 | 10.5 | 1400 | 30 | 0.08 |
| | 68 | 10 | 10.5 | 1400 | 30 | 0.08 |
| | 82 | 10 | 10.5 | 1400 | 30 | 0.08 |
| | 100 | 10 | 10.5 | 1400 | 30 | 0.08 |
| 80 | 22 | 8 | 10 | 1050 | 45 | 0.08 |
| | 33 | 8 | 10 | 1050 | 45 | 0.08 |
| | | 10 | 10.5 | 1200 | 36 | 0.08 |
| | 47 | 10 | 10.5 | 1200 | 36 | 0.08 |
| | 56 | 10 | 10.5 | 1200 | 36 | 0.08 |

1. Rated ripple current (100kHz / +125°C)

2. ESR (100kHz / +20°C)

3. tan δ (120Hz / +20°C)

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