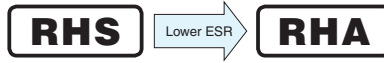


RHS / RHA

High Capacitance (φ8)

- Low ESR, High Capacitance, High ripple current.
- Load life of 2000 hours at 105°C.
- SMD type : Lead free reflow soldering condition at 260°C peak correspondence.
- Compliant to the RoHS directive (2011/65/EU).



FPCAP



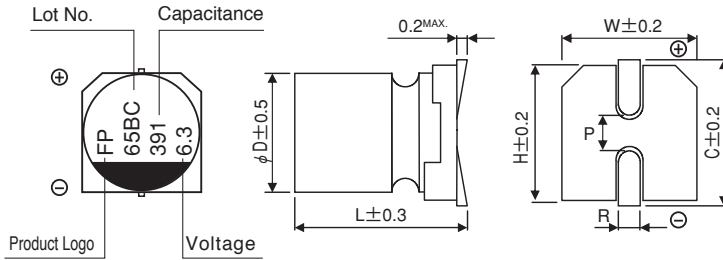
Specifications

| Item | Performance Characteristics | |
|-------------------------------|--|---|
| Category Temperature Range | -55 to +105°C | |
| Rated Voltage Range | 2.5 to 35V | |
| Rated Capacitance Range | 100 to 1500μF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| Tangent of loss angle (tan δ) | Less than or equal to the specified value at 120Hz, 20°C | |
| ESR (※1) | Less than or equal to the specified value at 100kHz, 20°C | |
| Leakage Current (※2) | Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C | |
| Endurance | Test condition | 105°C, rated voltage 2000Hrs. |
| | Capacitance change | Within ±20% of initial value before test |
| | tan δ | 150% or less than the initial specified value |
| | ESR(※1) | 150% or less than the initial specified value |
| | Leakage current (※2) | Less than or equal to the initial specified value |

※1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.

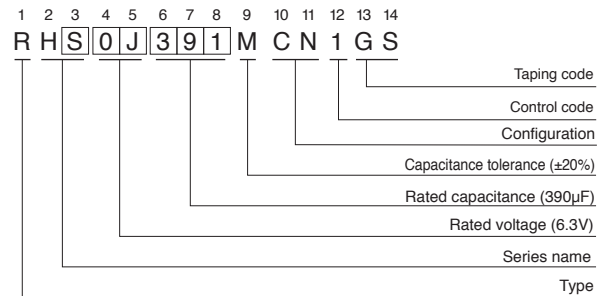
※2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

Dimensions

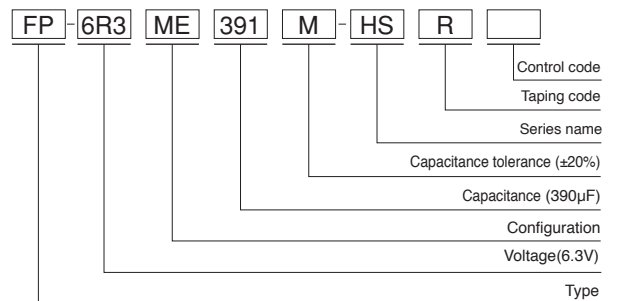


| (mm) | | | | | |
|--------|-----|-----|-----|------------|-----|
| φD×L | W | H | C | R | P |
| 8×6.7 | 8.3 | 8.3 | 9.0 | 0.8 to 1.1 | 3.2 |
| 8×7.7 | 8.3 | 8.3 | 9.0 | 0.8 to 1.1 | 3.2 |
| 8×8.7 | 8.3 | 8.3 | 9.0 | 0.8 to 1.1 | 3.2 |
| 8×11.7 | 8.3 | 8.3 | 9.0 | 0.8 to 1.1 | 3.2 |

Type numbering system (Example : 6.3V 390μF)
Nichicon part number



FPCAP part number



● Frequency coefficient of rated ripple current

| Frequency | 120 Hz | 1 kHz | 10 kHz | 100 kHz | 300 kHz |
|-------------|--------|-------|--------|---------|---------|
| Coefficient | 0.10 | 0.45 | 0.50 | 1.00 | 1.00 |

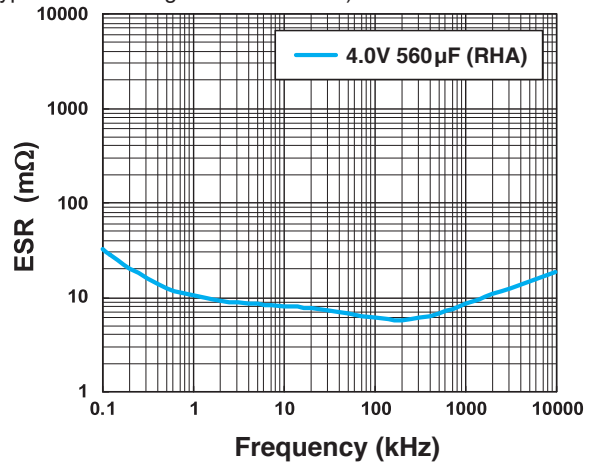
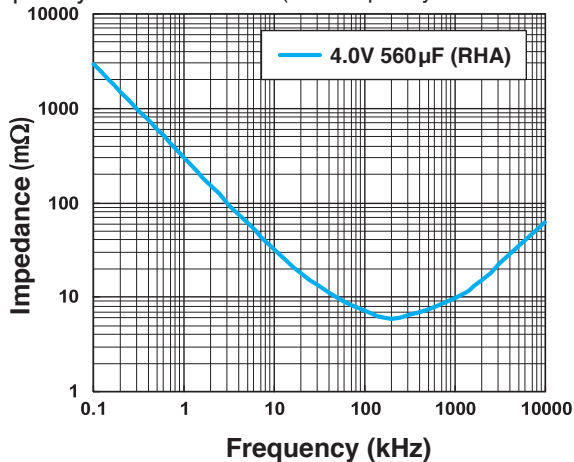
● Dimension table in next page.

RHS / RHA

■ Standard Ratings

| Rated Voltage (V) (code) | Surge Voltage (V) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA, 2min.) | ESR (mΩ, 100kHz) | Rated Ripple Current (mArms) | NICHICON | FPCAP |
|--------------------------|-------------------|------------------------|---------------------|-------|-----------------------------|------------------|------------------------------|----------------|------------------|
| 2.5 (0E) | 2.8 | 680 | 8×6.7 | 0.12 | 700 | 8 | 5000 | RHA0E681MCN1GS | FP-2R5ME681M-HAR |
| | | 820 | 8×11.7 | 0.12 | 700 | 9 | 5400 | RHS0E821MCN1GS | FP-2R5ME821M-HSR |
| | | 820 | 8×6.7 | 0.12 | 700 | 8 | 5000 | RHA0E821MCN1GS | FP-2R5ME821M-HAR |
| | | 1000 | 8×7.7 | 0.12 | 750 | 8 | 5000 | RHA0E102MCN1GS | FP-2R5ME102M-HAR |
| | | 1500 | 8×11.7 | 0.12 | 1125 | 9 | 5400 | RHS0E152MCN1GS | FP-2R5ME152M-HSR |
| 4.0 (0G) | 4.6 | 560 | 8×6.7 | 0.12 | 700 | 16 | 3200 | RHS0G561MCN1GS | FP-4R0ME561M-HSR |
| | | 560 | 8×6.7 | 0.12 | 700 | 8 | 5000 | RHA0G561MCN1GS | FP-4R0ME561M-HAR |
| | | 680 | 8×7.7 | 0.12 | 816 | 8 | 5000 | RHA0G681MCN1GS | FP-4R0ME681M-HAR |
| | | 1200 | 8×11.7 | 0.12 | 1440 | 9 | 5400 | RHS0G122MCN1GS | FP-4R0ME122M-HSR |
| | | 1500 | 8×11.7 | 0.12 | 1800 | 12 | 4700 | RHS0G152MCN1GS | FP-4R0ME152M-HSR |
| 6.3 (0J) | 7.2 | 330 | 8×6.7 | 0.12 | 700 | 9 | 4500 | RHA0J331MCN1GS | FP-6R3ME331M-HAR |
| | | 390 | 8×6.7 | 0.12 | 737 | 18 | 3200 | RHS0J391MCN1GS | FP-6R3ME391M-HSR |
| | | 390 | 8×6.7 | 0.12 | 737 | 9 | 4500 | RHA0J391MCN1GS | FP-6R3ME391M-HAR |
| | | 470 | 8×6.7 | 0.12 | 888 | 9 | 4500 | RHA0J471MCN1GS | FP-6R3ME471M-HAR |
| | | 560 | 8×7.7 | 0.12 | 1058 | 9 | 4500 | RHA0J561MCN1GS | FP-6R3ME561M-HAR |
| | | 820 | 8×11.7 | 0.12 | 1550 | 10 | 5150 | RHS0J821MCN1GS | FP-6R3ME821M-HSR |
| | | 1000 | 8×11.7 | 0.12 | 1890 | 10 | 5150 | RHS0J102MCN1GS | FP-6R3ME102M-HSR |
| 10 (1A) | 11.5 | 150 | 8×6.7 | 0.12 | 700 | 25 | 3000 | RHS1A151MCN1GS | FP-010ME151M-HSR |
| | | 330 | 8×7.7 | 0.12 | 660 | 19 | 3390 | RHS1A331MCN1GS | FP-010ME331M-HSR |
| 16 (1C) | 18.4 | 150 | 8×6.7 | 0.12 | 700 | 22 | 3220 | RHA1C151MCN1GS | FP-016ME151M-HAR |
| | | 270 | 8×6.7 | 0.12 | 864 | 22 | 3300 | RHA1C271MCN1GS | FP-016ME271M-HAR |
| | | 560 | 8×11.7 | 0.12 | 1792 | 14 | 4950 | RHS1C561MCN1GS | FP-016ME561M-HSR |
| 20 (1D) | 23.0 | 390 | 8×11.7 | 0.12 | 1560 | 14 | 4950 | RHS1D391MCN1GS | FP-020ME391M-HSR |
| 25 (1E) | 28.7 | 100 | 8×8.7 | 0.12 | 700 | 18 | 4000 | RHS1E101MCN1GS | FP-025ME101M-HSR |
| 35 (1V) | 40.2 | 100 | 8×8.7 | 0.12 | 700 | 25 | 3000 | RHS1V101MCN1GS | FP-035ME101M-HSR |

■ Frequency Characteristics (The frequency characteristics are typical and not a guaranteed value.)



- Taping specifications are given in page 28.
- Recommended land size, soldering by reflow are given in page 25.
- Please refer to page 3 for the minimum order quantity.