

FPCAP *Functional Polymer Aluminum Solid Electrolytic Capacitors*

HT series

Low ESR

Guarantee 125°C

Large Capacitance

Lead-free

RoHS Compliance

● Features

By using Functional Polymer cathode, Frequency & Temp. characteristics are greatly improved.

- Low ESR at a high frequency range.
- High ripple current capability.
- Guaranteed at 125 degrees and high reliability.

● Applications

- Switching Power Supply and DC/DC Converter.
- Back up Power Supplies of CPU (VRM etc.)
- Miniature high Power Supply.

● Environmental Correspondence

Any environmental hazardous substances are not used.

- The lead free of terminal plating (Sn 100%)

● Specifications

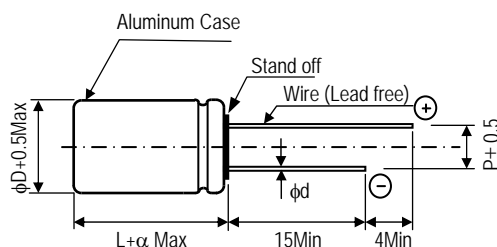
| Items | | Characteristics |
|-----------------------|-----------------|---|
| | | HT |
| Operating Temp. Range | | - 55 to + 125°C |
| Rated Voltage Range | | 6.3 to 20V-dc |
| Capacitance Range | | 150 to 820μF |
| Capacitance Tolerance | | ± 20% (M) |
| Endurance | Condition | 125°C 1000Hrs at rated voltage |
| | Capacitance | Within ± 20% of the value before test |
| | Leakage Current | Not to exceed the value specified |
| | tan δ | Not to exceed 150% of the value specified |
| Failure Rate | | 0.5% / 1000Hrs. Max (60%CL) |



● Size List

| R.V (S.V.) Cap. [μF] | | [φD×L] | | | |
|-------------------------|---------|--------------|--------------|--------------|------------|
| | | 6.3 (7.2) | 10 (11.5) | 16 (18.4) | 20 (23) |
| 150 | | | | 10×12.5 | |
| 220 | | 8×11.5 | | | |
| 330 | | 8×11.5 | 10×12.5 | | |
| 560 | | 10×12.5 | | | |
| 680 | 10×12.5 | | | | |
| 820 | 10×12.5 | | | | |

● Dimensions



[Unit : mm]

| φD×L | φd | P | α |
|---------|-----|-----|-----|
| 8×11.5 | 0.6 | 3.5 | 1.5 |
| 10×12.5 | 0.6 | 5.0 | 1.5 |

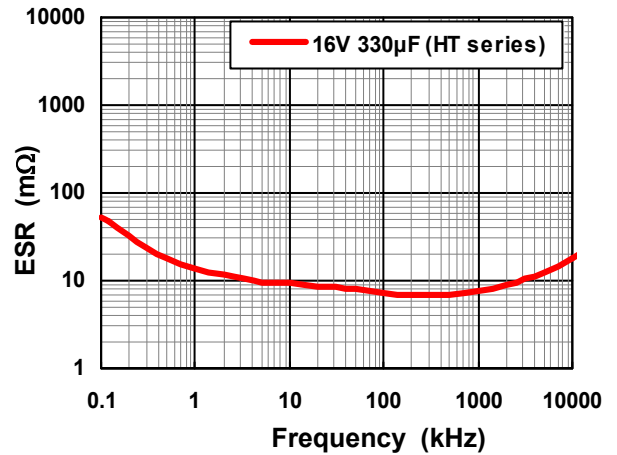
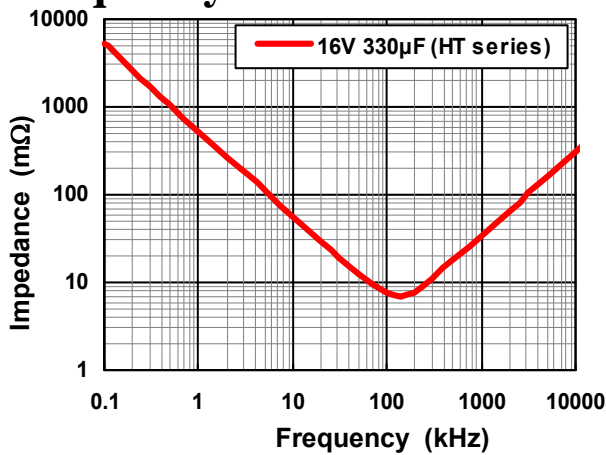
● Part number & Specifications

| Rated Voltage (V) | Rated Capacitance (μ F, 120Hz) | Part Number | | Leakage Current *1 (μ A, 2 min) | tan δ (120Hz) | ESR (m Ω , 100kHz) | Rated Ripple Current | | Case Size ϕ D \times L(mm) |
|----------------------|--|----------------|-------------------|---|-------------------------|------------------------------|----------------------|-------------------|--------------------------------------|
| | | NICHICON | FPCAP | | | | *2 105°C or less | *2 105°C to 125°C | |
| 6.3 | 680 | RHT0J681MDN1□□ | FP-6R3RE681M-HT□□ | 857 | 0.12 | 12 | 5450 | 1740 | 10 x 12.5 |
| | 820 | RHT0J821MDN1□□ | FP-6R3RE821M-HT□□ | 1033 | 0.12 | 12 | 5450 | 1740 | 10 x 12.5 |
| 10 | 220 | RHT1A221MDN1□□ | FP-010RE221M-HT□□ | 440 | 0.12 | 17 | 3950 | 1260 | 8 x 11.5 |
| | 330 | RHT1A331MDN1□□ | FP-010RE331M-HT□□ | 660 | 0.12 | 17 | 3950 | 1260 | 8 x 11.5 |
| | 560 | RHT1A561MDN1□□ | FP-010RE561M-HT□□ | 1120 | 0.12 | 13 | 5250 | 1680 | 10 x 12.5 |
| 16 | 330 | RHT1C331MDN1□□ | FP-016RE331M-HT□□ | 1056 | 0.12 | 16 | 4750 | 1520 | 10 x 12.5 |
| 20 | 150 | RHT1D151MDN1□□ | FP-020RE151M-HT□□ | 600 | 0.12 | 20 | 4350 | 1390 | 10 x 12.5 |

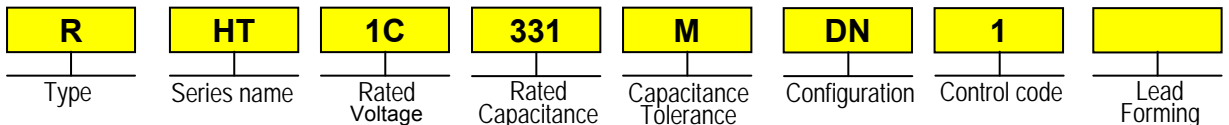
*1: In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

*2: At ambient temperature

● Frequency Characteristics

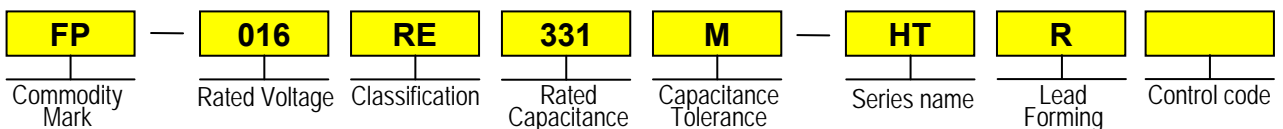


● Part Number (EX) 16V, 330 μ F Nichicon P/N



CG: Cut lead (Bulk)
 KX: ϕ 8, 3.5mm pitch taping
 PX: ϕ 8, 5.0mm pitch taping
 PH: ϕ 10, 5.0mm pitch taping

FPCAP P/N



R: Long lead (Bulk)
 CG: Cut lead (Bulk)
 K : ϕ 8, 3.5mm pitch taping
 P : ϕ 8, 5.0mm pitch taping
 PH: ϕ 10, 5.0mm pitch taping