

Jamicon Series : FF

Teapo Series : FF Large capacitance Series

- Endurance:105°C,2000hrs
- Recommended Applications: Ultra low ESR & Large capacitance Series
- Corresponding product to RoHS

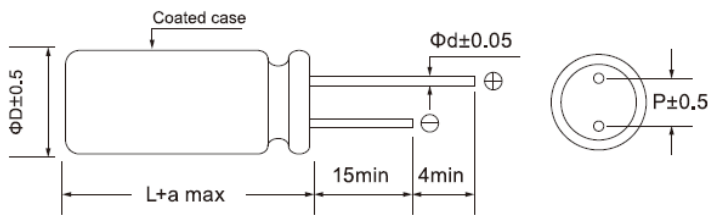
100  
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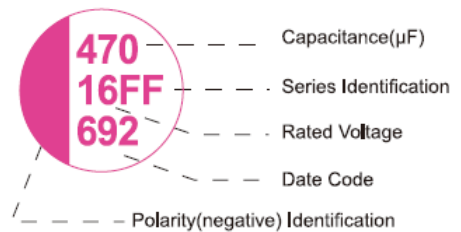
**Specifications**

| Item                                                | Characteristics                                                                                                                                                                                                                                                                |                                                   |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Category Temperature Range                          | -55 ~ +105°C                                                                                                                                                                                                                                                                   |                                                   |
| Rated Voltage Range                                 | 6.3~100VDC                                                                                                                                                                                                                                                                     |                                                   |
| Rated Capacitance Range                             | 10~ 2200 μF                                                                                                                                                                                                                                                                    |                                                   |
| Capacitance Tolerance                               | ± 20 % (120Hz , 20°C)                                                                                                                                                                                                                                                          |                                                   |
| Surge Voltage                                       | Rated voltage ( V ) x 1.15                                                                                                                                                                                                                                                     |                                                   |
| Leakage Current ( 20°C )                            | I ≤ 0.2CV or 300( μ A ) whichever is greater (After rated voltage applied for 2 minutes )<br>I : Leakage Current ( μ A ) C : Capacitance( μ F ) V : Rated Voltage Range(VDC)                                                                                                   |                                                   |
| Dissipation Factor (MAX)<br>(tan δ ) (120Hz ,20°C)  | WV                                                                                                                                                                                                                                                                             | 6.3~100                                           |
|                                                     | tan δ                                                                                                                                                                                                                                                                          | 0.12                                              |
| Temperature characteristic<br>Impedance ratio (MAX) | Z(100KHz) / WV                                                                                                                                                                                                                                                                 | 6.3 ~ 100V                                        |
|                                                     | Z-25°C / Z+20°C                                                                                                                                                                                                                                                                | ≤ 1.15                                            |
|                                                     | Z-55°C / Z+20°C                                                                                                                                                                                                                                                                | ≤ 1.25                                            |
| Endurance                                           | After applying rated voltage for 2000 hours at 105°C , the capacitor shall meet the following requirement °                                                                                                                                                                    |                                                   |
|                                                     | Appearance                                                                                                                                                                                                                                                                     | No significant damage                             |
|                                                     | Capacitance Change                                                                                                                                                                                                                                                             | Within ±20% of the initial value                  |
|                                                     | Dissipation Factor                                                                                                                                                                                                                                                             | Not more than 150% of the initial specified value |
|                                                     | Equivalent Series Resistance                                                                                                                                                                                                                                                   | Not more than 150% of the initial specified value |
| Humidity Test                                       | after subjecting 90 to 95% RH for 1000 hours at 60°C , the capacitors shall meet the requirement as Endurance °                                                                                                                                                                |                                                   |
|                                                     | Surge voltage test After subjecting to 1000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds,the capacitors shall meet the requirement as Endurance |                                                   |
| Failure rate(MAX)                                   | 1%per 1,000 hours(confidence level 60% at 105°C)                                                                                                                                                                                                                               |                                                   |

**Diagram of Dimensions**



**Marking : case with red printing**



| SIZE | Φ D x L | P   | Φ d      | a   |
|------|---------|-----|----------|-----|
| E01  | 6.3x5.4 | 2.5 | 0.45     | 1.0 |
| E06  | 6.3x6   | 2.5 | 0.5      | 1.5 |
| E08  | 6.3x8   | 2.5 | 0.5or0.6 | 1.0 |
| E11  | 6.3x11  | 2.5 | 0.5      | 1.0 |
| G08  | 8x8     | 3.5 | 0.6      | 1.5 |
| G1B  | 8x11.5  | 3.5 | 0.6      | 1.0 |
| H1A  | 10x10.5 | 5.0 | 0.6      | 1.0 |
| H1C  | 10x12.5 | 5.0 | 0.6      | 1.0 |
| H13  | 10x13   | 5.0 | 0.6      | 1.0 |
| H16  | 10x16   | 5.0 | 0.6      | 1.0 |

**Multiplier for Ripple Current**

| Frequency(HZ) | 120 ≤ F < 1K | 1K ≤ F < 10K | 10K ≤ F < 100K | 100K ≤ F ≤ 500K |
|---------------|--------------|--------------|----------------|-----------------|
| Coefficient   | 0.05         | 0.30         | 0.70           | 1.00            |

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■Dimensions, Rated Ripple Current, Equivalent Series Resistance

| Rated ( Surge ) Voltage(V) | Capacitance ( $\mu$ F) | SIZE $\Phi$ DxL(mm) | RIPPLE (mA/rms,105°C 100kHz) | ESR (m $\Omega$ ,20°C 100kHz) | Rated ( Surge ) Voltage(V) | Capacitance ( $\mu$ F) | SIZE $\Phi$ DxL(mm) | RIPPLE (mA/rms,105°C 100kHz) | ESR (m $\Omega$ ,20°C 100kHz) |       |
|----------------------------|------------------------|---------------------|------------------------------|-------------------------------|----------------------------|------------------------|---------------------|------------------------------|-------------------------------|-------|
| 6.3(7.25)                  | 150                    | 6.3x5.4             | 1810                         | 30                            | 25(28.75)                  | 680                    | 10x13               | 3500                         | 20                            |       |
|                            | 680                    | 6.3x8               | 4000                         | 10                            |                            | 820                    | 10x16               | 3500                         | 20                            |       |
|                            | 1000                   | 8x8                 | 4200                         | 10                            |                            | 1000                   | 10x16               | 3500                         | 20                            |       |
|                            |                        | 8x11.5              | 4860                         | 8                             | 32(36.8)                   | 22                     | 6.3x8               | 990                          | 60                            |       |
|                            | 1500                   | 8x11.5              | 4860                         | 8                             |                            | 47                     | 6.3x8               | 990                          | 60                            |       |
|                            |                        | 10x10.5             | 5000                         | 8                             |                            | 100                    | 8x8                 | 1200                         | 50                            |       |
|                            |                        | 10x12.5             | 5000                         | 7                             |                            | 150                    | 8x8                 | 1500                         | 50                            |       |
|                            | 10(11.5)               | 560                 | 8x8                          | 3000                          | 12                         | 35(40.25)              | 10                  | 6.3x8                        | 990                           | 60    |
|                            |                        |                     | 8x8                          | 3000                          | 12                         |                        | 22                  | 6.3x8                        | 990                           | 60    |
|                            |                        | 680                 | 8x11.5                       | 4000                          | 12                         |                        | 33                  | 6.3x6                        | 990                           | 70    |
| 8x11.5                     |                        |                     | 4000                         | 12                            | 47                         |                        | 6.3x8               | 990                          | 60                            |       |
| 820                        |                        | 8x11.5              | 4000                         | 12                            |                            |                        | 68                  | 6.3x8                        | 990                           | 60    |
|                            | 1000                   | 10x12.5             | 4360                         | 12                            | 100                        |                        | 6.3x8               | 1200                         | 40                            |       |
| 16(18.4)                   | 470                    | 8x11.5              | 4000                         | 12                            |                            |                        | 8x8                 | 2000                         | 50                            |       |
|                            |                        | 8x11.5              | 4000                         | 12                            |                            |                        | 8x11.5              | 2300                         | 35                            |       |
|                            | 560                    | 8x11.5              | 4000                         | 12                            | 150                        |                        | 8x11.5              | 2300                         | 35                            |       |
|                            |                        | 820                 | 10x12.5                      | 4000                          | 11                         |                        | 220                 | 8x11.5                       | 2400                          | 35    |
| 25(28.75)                  | 1000                   | 10x12.5             | 4200                         | 11                            | 270                        | 10x10.5                |                     | 2400                         | 35                            |       |
|                            |                        | 10x12.5             | 4200                         | 11                            | 330                        | 10x12.5                | 2500                | 25                           |                               |       |
|                            | 22                     | 6.3x5.4             | 1200                         | 60                            | 50(57.5)                   | 33                     | 8x8                 | 1300                         | 48                            |       |
|                            |                        | 47                  | 6.3x5.4                      | 1200                          |                            | 60                     | 47                  | 8x8                          | 1300                          | 48    |
|                            | 68                     | 6.3x8               | 1200                         | 35                            |                            | 8x11.5                 |                     | 1500                         | 45                            |       |
|                            |                        | 6.3x6               | 1200                         | 35                            |                            | 68                     | 8x11.5              | 1500                         | 45                            |       |
|                            | 100                    | 8x8                 | 1500                         | 30                            |                            |                        | 100                 | 10x10.5                      | 2200                          | 40    |
|                            |                        | 6.3x8               | 1500                         | 35                            |                            | 10x12.5                |                     | 2200                         | 40                            |       |
|                            | 120                    | 8x8                 | 1500                         | 30                            |                            | 120                    | 10x12.5             | 2200                         | 40                            |       |
|                            |                        | 150                 | 8x8                          | 1600                          |                            |                        | 28                  | 63(72.45)                    | 10                            | 6.3x8 |
| 220                        | 6.3x11                 | 2000                | 20                           | 33                            |                            | 8x8                    | 1100                |                              | 65                            |       |
|                            | 8x8                    | 2280                | 28                           | 47                            |                            | 8x8                    | 1100                |                              | 65                            |       |
| 270                        | 8x11.5                 | 2800                | 28                           | 56                            | 10x12.5                    | 1500                   | 55                  |                              |                               |       |
|                            | 8x11.5                 | 2800                | 25                           | 100                           | 10x12.5                    | 2000                   | 50                  |                              |                               |       |
| 330                        | 10x10.5                | 2800                | 25                           | 80(92.00)                     | 10                         | 6.3x8                  | 900                 | 90                           |                               |       |
|                            | 470                    | 10x12.5             | 3050                         |                               | 25                         | 47                     | 10x12.5             | 1300                         | 70                            |       |
| 560                        | 10x12.5                | 3050                | 25                           | 100(115.00)                   | 22                         | 10x12.5                | 1200                | 100                          |                               |       |