

Jamicon Series : TF

Teapo Series : SP

High Ripple · Long life Series

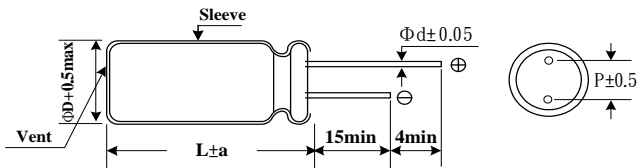


- Endurance: 105°C · 8000~10000hours
- Recommended Applications : Applicable for Electronic Ballast
- Corresponding product to RoHS

**■ SPECIFICATIONS**

| Item   | Characteristics  |                                       |
|--|--|---------------------------------------|
| Category Temperature Range                         | -40~+105°C   | -25~+105°C                            |
| Rated Voltage Range                                | 160 ~ 450VDC   | 500VDC                                |
| Rated Capacitance Range                            | 3.3 ~ 330 µF   | 10~ 68 µF                             |
| Capacitance Tolerance                              | ± 20 % ( 120Hz , 20°C)   | ± 20 % ( 120Hz , 20°C)                |
| Leakage Current (20°C)                             | I=0.04CV + 100(µ A) ,(After rated voltage applied for 2 minutes)<br>I : Max. leakage current (µ A), C : Nominal capacitance (µ F), V : Rated voltage (V)   |                                       |
| Dissipation Factor(MAX)<br>(tan δ) (120Hz , 20°C)  | WV   | 160    200    400    420~450    500   |
|  | tan δ  | 0.15    0.15    0.15    0.24    0.24  |
| Low Temperature Stability<br>Impedance Ratio (MAX) | WV   | 160    200    400    420~450    500   |
|  | Z(120Hz)   |                                       |
|  | Z-25°C / Z+20°C  | 3    3    5    6    6                 |
| Z-40°C / Z+20°C                                    | 4    4    6    8    -  |                                       |
| Endurance  | The follwing sprcifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the max ripple current is applies for 10000 hours (8000 hours for φ 10) at 105°C. |                                       |
|  | Capacitance change   | Within ± 20% of initial value         |
|  | D.F. (tan δ)   | Not more than 200% of specified value |
| Shelf Life   | Leakage current  | initial specified value or less       |
|  | After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.  |                                       |

**■ Dimensions [mm]**



|    |          |        |     |     |     |
|----|----------|--------|-----|-----|-----|
| ΦD | 10       | 12.5   | 13  | 16  | 18  |
| P  | 5.0      | 5.0    | 7.5 | 7.5 | 7.5 |
| Φd | 0.6      | 0.6    | 0.8 | 0.8 | 0.8 |
| a  | 1.5(2.0) | 2(2.5) | 2.0 | 2.0 | 2.0 |

Notes : ( ):L ≥ 30mm

**■ Multiplier for Ripple Current**

|             |     |     |     |      |
|-------------|-----|-----|-----|------|
| Freq. (Hz)  | 120 | 1K  | 10K | 100K |
| Coefficient | 1.0 | 1.6 | 1.8 | 2.0  |

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■ STANDARD RATINGS

| Rated Voltage (Surage Voltage) (V) | Cap (μF) | Case size Φ D×L(mm) | Ripple current (mA/rms105°C) (120Hz) | Ripple current (mA/rms105°C) (100KHz) | Rated Voltage (Surage Voltage) (V) | Cap (μF) | Case size Φ D×L(mm) | Ripple current (mA/rms105°C) (120Hz) | Ripple current (mA/rms105°C) (100KHz) |      |         |     |     |
|------------------------------------|----------|---------------------|--------------------------------------|---------------------------------------|------------------------------------|----------|---------------------|--------------------------------------|---------------------------------------|------|---------|-----|-----|
| 160 (200)                          | 33       | 10x20               | 250                                  | 500                                   | 400(450)                           | 68       | 18x32               | 500                                  | 1000                                  |      |         |     |     |
|                                    | 47       | 10x20               | 290                                  | 580                                   |                                    | 82       | 12.5x55             | 460                                  | 1060                                  |      |         |     |     |
|                                    |          | 12.5x20             | 330                                  | 660                                   |                                    |          | 16x40               | 550                                  | 1100                                  |      |         |     |     |
|                                    | 68       | 13x25               | 380                                  | 760                                   | 100                                | 16x50    | 650                 | 1300                                 | 420(470)                              | 27   | 10x40   | 200 | 400 |
|                                    |          | 16x20               | 380                                  | 760                                   | 100                                | 33       | 10x45               | 235                                  |                                       | 470  |         |     |     |
|                                    | 100      | 13x25               | 485                                  | 970                                   |                                    | 39       | 10x50               | 170                                  |                                       | 340  |         |     |     |
|                                    |          | 16x20               | 560                                  | 1120                                  |                                    | 47       | 12.5x42             | 310                                  |                                       | 620  |         |     |     |
|                                    |          | 16x25               | 560                                  | 1120                                  |                                    | 56       | 12.5x45             | 330                                  |                                       | 660  |         |     |     |
|                                    | 150      | 18x20               | 560                                  | 1120                                  | 68                                 | 12.5x50  | 390                 | 780                                  |                                       | 82   | 12.5x55 | 450 | 900 |
|                                    |          | 10x45               | 410                                  | 820                                   | 22                                 | 3.3      | 10x16               | 50                                   |                                       | 100  |         |     |     |
|                                    |          | 16x25               | 600                                  | 1200                                  |                                    | 4.7      | 10x20               | 70                                   |                                       | 140  |         |     |     |
|                                    |          | 16x32               | 680                                  | 1360                                  |                                    | 6.8      | 10x20               | 75                                   |                                       | 150  |         |     |     |
|                                    | 18x25    | 680                 | 1360                                 | 12.5x20                               |                                    |          | 90                  | 180                                  |                                       |      |         |     |     |
|                                    | 180      | 10x50               | 470                                  | 940                                   | 10                                 | 10x20    | 130                 | 260                                  | 450 (500)                             | 10   | 12.5x20 | 160 | 320 |
|                                    | 220      | 12.5x45             | 550                                  | 1100                                  |                                    | 22       | 10x40               | 250                                  |                                       |      | 500     |     |     |
|                                    |          | 16x32               | 700                                  | 1400                                  | 13x20                              |          | 215                 | 430                                  |                                       |      |         |     |     |
|                                    |          | 18x25               | 700                                  | 1400                                  | 16x20                              |          | 240                 | 480                                  |                                       |      |         |     |     |
|                                    | 270      | 12.5x50             | 640                                  | 1280                                  | 33                                 |          | 16x25               | 280                                  |                                       | 560  |         |     |     |
| 12.5x55                            |          | 740                 | 1480                                 | 18x20                                 |                                    | 280      | 560                 |                                      |                                       |      |         |     |     |
| 330                                |          | 18x36               | 690                                  | 1380                                  |                                    | 10x42    | 270                 | 540                                  |                                       |      |         |     |     |
|                                    | 22       | 10x20               | 250                                  | 500                                   |                                    | 33       | 10x45               | 350                                  |                                       | 600  |         |     |     |
| 33                                 |          | 10x20               | 260                                  | 520                                   | 16x32                              |          | 350                 | 700                                  |                                       |      |         |     |     |
| 200 (250)                          | 33       | 12.5x20             | 300                                  | 600                                   | 39                                 | 18x25    | 350                 | 700                                  |                                       |      |         |     |     |
|                                    |          | 47                  | 13x20                                | 330                                   |                                    | 660      | 10x50               | 340                                  |                                       | 680  |         |     |     |
|                                    | 68       | 13x25               | 380                                  | 760                                   |                                    | 47       | 12.5x40             | 350                                  |                                       | 700  |         |     |     |
|                                    |          | 16x20               | 380                                  | 760                                   | 12.5x45                            |          | 420                 | 840                                  |                                       |      |         |     |     |
|                                    | 100      | 16x25               | 560                                  | 1120                                  | 16x36                              |          | 440                 | 880                                  |                                       |      |         |     |     |
|                                    |          | 18x20               | 560                                  | 1120                                  | 18x20                              |          | 350                 | 700                                  |                                       |      |         |     |     |
|                                    | 120      | 10x50               | 430                                  | 860                                   | 56                                 | 18x25    | 390                 | 780                                  |                                       |      |         |     |     |
|                                    |          | 150                 | 12.5x45                              | 510                                   |                                    | 1320     | 18x32               | 440                                  |                                       | 880  |         |     |     |
|                                    | 150      | 16x32               | 680                                  | 1360                                  |                                    | 68       | 12.5x50             | 280                                  |                                       | 900  |         |     |     |
|                                    |          | 180                 | 12.5x50                              | 590                                   |                                    |          | 1180                | 12.5x55                              | 530                                   | 1060 |         |     |     |
|                                    | 250(300) | 100                 | 12.5x52                              | 650                                   | 1300                               | 82       | 16x40               | 550                                  | 1100                                  |      |         |     |     |
|                                    |          |                     | 270                                  | 12.5x55                               | 750                                |          | 1500                | 16x45                                | 625                                   | 1250 |         |     |     |
| 120                                |          | 10x52               | 390                                  | 780                                   | 100                                | 18x36    | 625                 | 1250                                 |                                       |      |         |     |     |
|                                    |          | 150                 | 12.5x50                              | 540                                   |                                    | 1080     | 16x50               | 750                                  | 1550                                  |      |         |     |     |
| 350(400)                           |          | 180                 | 12.5x55                              | 650                                   | 1300                               | 100      | 18x40               | 750                                  | 1550                                  |      |         |     |     |
|                                    |          | 47                  | 12.5x35                              | 300                                   | 600                                |          | 10                  | 12.5x20                              | 130                                   | 260  |         |     |     |
|                                    | 68       | 12.5x45             | 400                                  | 800                                   | 15                                 | 12.5x25  | 165                 | 330                                  |                                       |      |         |     |     |
|                                    |          | 82                  | 12.5x50                              | 475                                   |                                    | 950      | 16x20               | 170                                  | 340                                   |      |         |     |     |
| 100                                | 16x40    | 550                 | 1100                                 | 18                                    | 12.5x30                            | 195      | 390                 |                                      |                                       |      |         |     |     |
|                                    | 6.8      | 10x16               | 110                                  |                                       | 220                                | 16x20    | 185                 | 370                                  |                                       |      |         |     |     |
| 400 (450)                          | 10       | 10x20               | 140                                  | 280                                   | 22                                 | 12.5x35  | 230                 | 460                                  |                                       |      |         |     |     |
|                                    | 22       | 12.5x25             | 215                                  | 430                                   |                                    | 16x25    | 230                 | 460                                  |                                       |      |         |     |     |
|                                    |          | 16x20               | 215                                  | 430                                   |                                    | 18x20    | 225                 | 450                                  |                                       |      |         |     |     |
|                                    | 33       | 12.5x30             | 300                                  | 600                                   |                                    | 27       | 12.5x40             | 270                                  | 540                                   |      |         |     |     |
|                                    |          | 16x20               | 250                                  | 500                                   | 16x25                              |          | 250                 | 500                                  |                                       |      |         |     |     |
|                                    | 39       | 16x25               | 320                                  | 640                                   | 33                                 | 16x30    | 300                 | 600                                  |                                       |      |         |     |     |
|                                    |          | 10x45               | 260                                  | 615                                   |                                    | 18x25    | 295                 | 590                                  |                                       |      |         |     |     |
|                                    | 47       | 12.5x35             | 325                                  | 650                                   | 39                                 | 16x36    | 355                 | 710                                  |                                       |      |         |     |     |
|                                    |          | 12.5x40             | 310                                  | 720                                   |                                    | 47       | 16x40               | 410                                  | 820                                   |      |         |     |     |
|                                    |          | 16x32               | 420                                  | 840                                   | 56                                 | 18x30    | 385                 | 770                                  |                                       |      |         |     |     |
|                                    | 18x25    | 420                 | 840                                  | 18x36                                 |                                    | 455      | 910                 |                                      |                                       |      |         |     |     |
|                                    | 56       | 10x52               | 340                                  | 680                                   | 68                                 | 18x40    | 515                 | 1030                                 |                                       |      |         |     |     |
|                                    |          | 12.5x45             | 360                                  | 720                                   |                                    | 68       | 18x40               | 515                                  | 1030                                  |      |         |     |     |
|                                    | 68       | 12.5x50             | 450                                  | 900                                   |                                    |          |                     |                                      |                                       |      |         |     |     |