



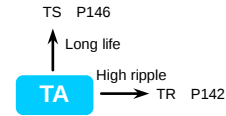
TA SERIES

High Voltage

Standard

RoHS

- All-welded construction ensures reliable electrical contact
- Working voltage below 750V
- Endurance with ripple current: 2000 hours at 85°C
- Applications: Frequency converters, Uninterruptible power supplies and Electric welding machine



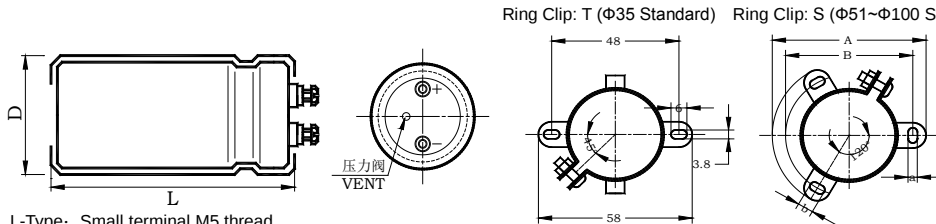
#### SPECIFICATIONS

| Items                                  | Characteristics                                                                                                                                   |        |      |     |     |      |     |           |      |     |     |      |      |     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-----|-----|------|-----|-----------|------|-----|-----|------|------|-----|
| Operating Temperature Range            | - 40~+85℃                                                                                                                                         |        |      |     |     |      |     | - 25~+85℃ |      |     |     |      |      |     |
| Rated Working Voltage Range            | 10~250V                                                                                                                                           |        |      |     |     |      |     | 350~750V  |      |     |     |      |      |     |
| Capacitance Range                      | 820~820000 μ F                                                                                                                                    |        |      |     |     |      |     |           |      |     |     |      |      |     |
| Capacitance Tolerance                  | ±20% (20℃,120Hz)                                                                                                                                  |        |      |     |     |      |     |           |      |     |     |      |      |     |
| Dissipation Factor (MAX)<br>20℃, 120Hz | U <sub>R</sub> (V)                                                                                                                                | 10-100 | 160  | 200 | 250 | 350  | 400 | 450       | 500  | 550 | 600 | 650  | 700  | 750 |
|                                        | tanδ                                                                                                                                              |        | 0.20 |     |     | 0.15 |     |           | 0.20 |     |     | 0.25 | 0.30 |     |
| Leakage Current (MAX)                  | I=0.01C <sub>R</sub> U <sub>R</sub> or 5mA whichever is minimum. (at 20℃, After 5 minutes application of rated voltage)<br>I=Leakage Current (μA) |        |      |     |     |      |     |           |      |     |     |      |      |     |

|                                                                                                     | Useful Life                                                   |                                                                     | Load Life                                      | Endurance Test                                     | Shelf Life                                             |                                                                                                             |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Life Time                                                                                           | 4000h                                                         | >65000h                                                             | 2000h                                          | 2000h                                              | 1000h<br>U <sub>R</sub> ≤ 550V                         | 500h<br>U <sub>R</sub> ≥ 600V                                                                               |
| Leakage Current                                                                                     | ≤ Specified value                                             |                                                                     | ≤ Specified value                              | ≤ Specified value                                  | ≤ Specified value                                      |                                                                                                             |
| tanδ Change                                                                                         | ≤ 300% of specified value                                     |                                                                     | ≤ 175% of specified value                      | ≤ 130% of specified value                          | ≤ 150% of specified value                              |                                                                                                             |
| Capacitance Change                                                                                  | Within ± 30% of initial value                                 |                                                                     | Within ± 15% of initial value                  | Within ± 10% of initial value                      | Within ± 15% of initial value                          |                                                                                                             |
| Condition<br>Applied Voltage<br>Applied Ripple Current<br>Applied Temperature<br>Failure Rate Level | U <sub>R</sub><br>I <sub>R</sub><br>85°C<br>≤ 1% Failure rate | U <sub>R</sub><br>1.2 × I <sub>R</sub><br>40°C<br>≤ 1% Failure rate | U <sub>R</sub><br>I <sub>R</sub><br>85°C<br>0% | U <sub>R</sub><br>I <sub>R</sub> = 0<br>85°C<br>0% | U <sub>R</sub> = 0<br>I <sub>R</sub> = 0<br>85°C<br>0% | Back up to 20 °C and placed more than 24 hours. U <sub>a</sub> to be applied for 60 min before measurement. |

#### Dimensions

##### Terminal Code



L-Type: Small terminal M5 thread  
S-Type: Large terminal, if D:76~89mm, M6 thread, if D:100mm M8 thread

Please consult to us for the terminal type not displayed in content.

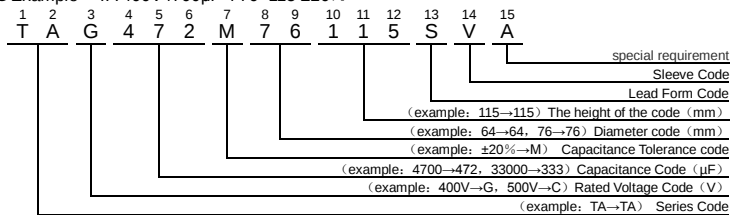
Ring Clip Dimensions:

| ΦD  | A     | B     | a   | b |
|-----|-------|-------|-----|---|
| 51  | 73.0  | 63.5  | 4.5 | 7 |
| 64  | 85.1  | 76.2  | 4.5 | 7 |
| 76  | 98.4  | 88.9  | 4.5 | 7 |
| 89  | 111.1 | 101.6 | 4.5 | 7 |
| 100 | 127.0 | 115.0 | 6.2 | 8 |

For detailed dimension & tolerance, please refer to P130

#### PART NUMBER SYSTEM

Example TA 400V4700μF Φ76×115 ±20%



#### Rated Ripple Current Multiplies

##### Frequency coefficient

| (v)           | Frequency (Hz) | 50 (60) | 100 (120) | 300  | 1k   | ≥10k |
|---------------|----------------|---------|-----------|------|------|------|
| Rated voltage | 10~50WV        | 0.95    | 1.00      | 1.04 | 1.10 | 1.15 |
|               | 63~100WV       | 0.95    | 1.00      | 1.06 | 1.16 | 1.30 |
|               | 160~500WV      | 0.80    | 1.00      | 1.10 | 1.25 | 1.50 |
|               | 550WV~750WV    | 0.80    | 1.00      | 1.10 | 1.30 | 1.40 |

##### Temperature coefficient

| (v)           | Temperature (°C) | +40  | +60  | +70  | +85  |
|---------------|------------------|------|------|------|------|
| Rated voltage | 10~50WV          | 2.70 | 2.00 | 1.70 | 1.00 |
|               | 550~750WV        | 1.89 | 1.67 | —    | 1.00 |



# TA SERIES

## ◆ Standard Ratings

| WV <sub>DC</sub><br>(Surge<br>Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple<br>Current<br>85°C/120Hz<br>(Arms) | Catalog Part Number |
|-----------------------------------------------|-------------|---------------------|--------------------|-------------------------------------------|---------------------|
| 10<br>(13)                                    | 33000       | 35×60               | 0.80               | 5.1                                       | TAW333M35060□VA     |
|                                               | 39000       | 35×60               | 0.80               | 5.6                                       | TAW393M35060□VA     |
|                                               | 47000       | 35×60               | 0.80               | 6.2                                       | TAW473M35060□VA     |
|                                               | 56000       | 35×80               | 0.80               | 7.3                                       | TAW563M35080□VA     |
|                                               | 68000       | 35×80               | 0.80               | 8.0                                       | TAW683M35080□VA     |
|                                               | 82000       | 35×100              | 0.80               | 9.2                                       | TAW823M35100□VA     |
|                                               | 100000      | 35×100              | 0.80               | 10.5                                      | TAW104M35100□VA     |
|                                               | 120000      | 35×120              | 0.80               | 12.0                                      | TAW124M35120□VA     |
|                                               | 150000      | 35×120              | 1.00               | 12.9                                      | TAW154M35120□VA     |
|                                               | 180000      | 51×95               | 1.00               | 13.4                                      | TAW184M51095□VA     |
|                                               | 220000      | 51×115              | 1.50               | 14.4                                      | TAW224M51115□VA     |
|                                               | 270000      | 51×115              | 1.50               | 15.3                                      | TAW274M51115□VA     |
|                                               | 330000      | 64×95               | 1.50               | 18.3                                      | TAW334M64095□VA     |
|                                               | 390000      | 64×115              | 1.50               | 20.7                                      | TAW394M64115□VA     |
|                                               | 470000      | 64×130              | 2.00               | 20.2                                      | TAW474M64130□VA     |
|                                               | 560000      | 76×115              | 2.00               | 22.8                                      | TAW564M76115□VA     |
| 16<br>(20)                                    | 680000      | 76×130              | 2.00               | 26.0                                      | TAW684M76130□VA     |
|                                               | 820000      | 76×155              | 2.00               | 29.5                                      | TAW824M76155□VA     |
|                                               | 22000       | 35×60               | 0.60               | 4.9                                       | TAV223M35060□VA     |
|                                               | 27000       | 35×60               | 0.60               | 5.4                                       | TAV273M35060□VA     |
|                                               | 33000       | 35×60               | 0.60               | 6.0                                       | TAV333M35060□VA     |
|                                               | 39000       | 35×60               | 0.60               | 7.1                                       | TAV393M35060□VA     |
|                                               | 47000       | 35×80               | 0.60               | 7.6                                       | TAV473M35080□VA     |
|                                               | 56000       | 35×80               | 0.60               | 8.7                                       | TAV563M35080□VA     |
|                                               | 68000       | 35×100              | 0.60               | 10.0                                      | TAV683M35100□VA     |
|                                               | 82000       | 35×100              | 0.80               | 9.9                                       | TAV823M35100□VA     |
|                                               | 100000      | 35×120              | 0.80               | 11.5                                      | TAV104M35120□VA     |
|                                               | 120000      | 35×120              | 0.80               | 13.0                                      | TAV124M35120□VA     |
|                                               | 150000      | 51×95               | 1.00               | 13.5                                      | TAV154M51095□VA     |
|                                               | 180000      | 51×115              | 1.00               | 14.0                                      | TAV184M51115□VA     |
|                                               | 220000      | 51×130              | 1.00               | 18.3                                      | TAV224M51130□VA     |
|                                               | 270000      | 64×95               | 1.00               | 19.3                                      | TAV274M64095□VA     |
| 25<br>(32)                                    | 330000      | 64×115              | 1.50               | 18.4                                      | TAV334M64115□VA     |
|                                               | 390000      | 64×130              | 1.50               | 21.9                                      | TAV394M64130□VA     |
|                                               | 470000      | 76×115              | 1.50               | 25.5                                      | TAV474M76115□VA     |
|                                               | 560000      | 76×130              | 1.50               | 28.3                                      | TAV564M76130□VA     |
|                                               | 680000      | 76×155              | 1.50               | 33.1                                      | TAV684M76155□VA     |
|                                               | 820000      | 89×157              | 2.00               | 32.5                                      | TAV824M89157□VA     |
|                                               | 15000       | 35×60               | 0.50               | 4.4                                       | TAU153M35060□VA     |
|                                               | 18000       | 35×60               | 0.50               | 4.9                                       | TAU183M35060□VA     |
|                                               | 22000       | 35×60               | 0.50               | 5.4                                       | TAU223M35060□VA     |
|                                               | 27000       | 35×60               | 0.50               | 6.0                                       | TAU273M35060□VA     |
|                                               | 33000       | 35×80               | 0.50               | 7.1                                       | TAU333M35080□VA     |
|                                               | 39000       | 35×80               | 0.50               | 8.0                                       | TAU393M35080□VA     |
|                                               | 47000       | 35×100              | 0.50               | 9.2                                       | TAU473M35100□VA     |
|                                               | 56000       | 35×100              | 0.60               | 9.4                                       | TAU563M35100□VA     |
|                                               | 68000       | 35×120              | 0.60               | 11.0                                      | TAU683M35120□VA     |
|                                               | 82000       | 35×120              | 0.60               | 12.4                                      | TAU823M35120□VA     |

| WV <sub>DC</sub><br>(Surge<br>Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple<br>Current<br>85°C/120Hz<br>(Arms) | Catalog Part Number |
|-----------------------------------------------|-------------|---------------------|--------------------|-------------------------------------------|---------------------|
| 25<br>(32)                                    | 680000      | 89×157              | 1.20               | 38.3                                      | TAU684M89157□VA     |
|                                               | 10000       | 35×60               | 0.40               | 3.9                                       | TAT103M35060□VA     |
|                                               | 12000       | 35×60               | 0.40               | 4.2                                       | TAT123M35060□VA     |
|                                               | 15000       | 35×60               | 0.40               | 4.8                                       | TAT153M35060□VA     |
|                                               | 18000       | 35×80               | 0.40               | 5.4                                       | TAT183M35080□VA     |
|                                               | 22000       | 35×80               | 0.40               | 6.5                                       | TAT223M35080□VA     |
|                                               | 27000       | 35×100              | 0.40               | 7.2                                       | TAT273M35100□VA     |
|                                               | 33000       | 35×100              | 0.40               | 8.2                                       | TAT333M35100□VA     |
|                                               | 39000       | 35×120              | 0.50               | 9.5                                       | TAT393M35120□VA     |
|                                               | 47000       | 51×95               | 0.50               | 10.0                                      | TAT473M51095□VA     |
|                                               | 56000       | 51×95               | 0.60               | 9.8                                       | TAT563M51095□VA     |
|                                               | 68000       | 51×115              | 0.60               | 11.2                                      | TAT683M51115□VA     |
|                                               | 82000       | 64×95               | 0.60               | 13.3                                      | TAT823M64095□VA     |
|                                               | 100000      | 64×115              | 0.60               | 15.3                                      | TAT104M64115□VA     |
|                                               | 120000      | 64×115              | 0.80               | 17.0                                      | TAT124M64115□VA     |
|                                               | 150000      | 64×130              | 0.80               | 17.1                                      | TAT154M64130□VA     |
| 35<br>(44)                                    | 180000      | 76×115              | 0.80               | 19.5                                      | TAT184M76115□VA     |
|                                               | 220000      | 76×130              | 0.80               | 23.0                                      | TAT224M76130□VA     |
|                                               | 270000      | 76×155              | 1.00               | 23.3                                      | TAT274M76155□VA     |
|                                               | 330000      | 89×130              | 1.00               | 27.0                                      | TAT334M89130□VA     |
|                                               | 390000      | 89×157              | 1.00               | 30.3                                      | TAT394M89157□VA     |
|                                               | 470000      | 89×157              | 1.00               | 33.9                                      | TAT474M89157□VA     |
|                                               | 5600        | 35×60               | 0.30               | 3.4                                       | TAR562M35060□VA     |
|                                               | 6800        | 35×60               | 0.30               | 3.7                                       | TAR682M35060□VA     |
|                                               | 8200        | 35×60               | 0.30               | 4.1                                       | TAR822M35060□VA     |
|                                               | 10000       | 35×60               | 0.30               | 4.6                                       | TAR103M35060□VA     |
|                                               | 12000       | 35×80               | 0.30               | 5.4                                       | TAR123M35080□VA     |
|                                               | 15000       | 35×80               | 0.30               | 6.3                                       | TAR153M35080□VA     |
|                                               | 18000       | 35×100              | 0.30               | 7.1                                       | TAR183M35100□VA     |
|                                               | 22000       | 35×120              | 0.40               | 7.2                                       | TAR223M35120□VA     |
|                                               | 27000       | 35×120              | 0.40               | 8.1                                       | TAR273M35120□VA     |
|                                               | 33000       | 51×95               | 0.40               | 9.4                                       | TAR333M51095□VA     |
| 50<br>(63)                                    | 39000       | 51×95               | 0.50               | 9.3                                       | TAR393M51095□VA     |
|                                               | 47000       | 51×115              | 0.50               | 10.7                                      | TAR473M51115□VA     |
|                                               | 56000       | 64×95               | 0.50               | 12.0                                      | TAR563M64095□VA     |
|                                               | 68000       | 64×95               | 0.50               | 13.8                                      | TAR683M64095□VA     |
|                                               | 82000       | 64×115              | 0.50               | 15.7                                      | TAR823M64115□VA     |
|                                               | 100000      | 76×115              | 0.60               | 16.9                                      | TAR104M76115□VA     |
|                                               | 120000      | 76×115              | 0.60               | 19.2                                      | TAR124M76115□VA     |
|                                               | 150000      | 76×130              | 0.60               | 22.1                                      | TAR154M76130□VA     |
|                                               | 180000      | 76×155              | 0.60               | 25.1                                      | TAR184M76155□VA     |
|                                               | 220000      | 89×130              | 0.60               | 24.6                                      | TAR224M89130□VA     |
|                                               | 270000      | 89×157              | 0.60               | 28.6                                      | TAR274M89157□VA     |
|                                               | 3900        | 35×60               | 0.25               | 3.1                                       | TAQ392M35060□VA     |
|                                               | 4700        | 35×60               | 0.25               | 3.4                                       | TAQ472M35060□VA     |
|                                               | 5600        | 35×60               | 0.25               | 3.7                                       | TAQ562M35060□VA     |
|                                               | 6800        | 35×60               | 0.25               | 4.1                                       | TAQ682M35060□VA     |
|                                               | 8200        | 35×80               | 0.25               | 4.9                                       | TAQ822M35080□VA     |
| 63<br>(79)                                    | 10000       | 35×80               | 0.25               | 5.6                                       | TAQ103M35080□VA     |
|                                               | 12000       | 35×100              | 0.25               | 6.4                                       | TAQ123M35100□VA     |
|                                               | 15000       | 35×100              | 0.30               | 6.7                                       | TAQ153M35100□VA     |
|                                               | 18000       | 35×120              | 0.30               | 7.7                                       | TAQ183M35120□VA     |
|                                               | 22000       | 35×120              | 0.30               | 8.9                                       | TAQ223M35120□VA     |
|                                               | 27000       | 51×95               | 0.40               | 8.5                                       | TAQ273M51095□VA     |
|                                               | 33000       | 51×95               | 0.40               | 9.6                                       | TAQ333M51095□VA     |
|                                               | 39000       | 51×115              | 0.40               | 10.9                                      | TAQ393M51115□VA     |
|                                               | 47000       | 51×130              | 0.40               | 12.9                                      | TAQ473M51130□VA     |
|                                               | 56000       | 64×115              | 0.40               | 14.7                                      | TAQ563M64115□VA     |

\*□Enter the appropriate terminal code



# TA SERIES

## ◆ Standard Ratings

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Current<br>85°C/120Hz<br>(Arms) | Catalog Part Number |
|--------------------------------------------|-------------|---------------------|--------------------|----------------------------------------|---------------------|
| 63<br>(79)                                 | 68000       | 64×115              | 0.50               | 15.4                                   | TAQ683M64115□VA     |
|                                            | 82000       | 64×130              | 0.50               | 16.0                                   | TAQ823M64130□VA     |
|                                            | 100000      | 76×115              | 0.50               | 18.4                                   | TAQ104M76115□VA     |
|                                            | 120000      | 76×130              | 0.50               | 20.9                                   | TAQ124M76130□VA     |
|                                            | 150000      | 76×155              | 0.50               | 24.6                                   | TAQ154M76155□VA     |
|                                            | 180000      | 89×130              | 0.60               | 24.6                                   | TAQ184M89130□VA     |
|                                            | 220000      | 89×157              | 0.60               | 28.8                                   | TAQ224M89157□VA     |
| 80<br>(100)                                | 3300        | 35×60               | 0.25               | 2.8                                    | TAP332M35060□VA     |
|                                            | 3900        | 35×60               | 0.25               | 3.2                                    | TAP392M35060□VA     |
|                                            | 4700        | 35×60               | 0.25               | 3.4                                    | TAP472M35060□VA     |
|                                            | 5600        | 35×80               | 0.25               | 4.1                                    | TAP562M35080□VA     |
|                                            | 6800        | 35×80               | 0.25               | 4.4                                    | TAP682M35080□VA     |
|                                            | 8200        | 35×80               | 0.25               | 5.1                                    | TAP822M35080□VA     |
|                                            | 10000       | 35×100              | 0.25               | 5.9                                    | TAP103M35100□VA     |
|                                            | 12000       | 35×100              | 0.25               | 6.7                                    | TAP123M35100□VA     |
|                                            | 15000       | 35×120              | 0.25               | 7.8                                    | TAP153M35120□VA     |
|                                            | 18000       | 35×120              | 0.25               | 8.9                                    | TAP183M35120□VA     |
|                                            | 22000       | 51×95               | 0.30               | 9.2                                    | TAP223M51095□VA     |
|                                            | 27000       | 51×95               | 0.30               | 10.5                                   | TAP273M51095□VA     |
|                                            | 33000       | 51×115              | 0.30               | 12.0                                   | TAP333M51115□VA     |
|                                            | 39000       | 51×130              | 0.30               | 13.8                                   | TAP393M51130□VA     |
|                                            | 47000       | 64×115              | 0.30               | 16.6                                   | TAP473M64115□VA     |
|                                            | 56000       | 64×130              | 0.40               | 15.4                                   | TAP563M64130□VA     |
|                                            | 68000       | 76×115              | 0.40               | 17.7                                   | TAP683M76115□VA     |
|                                            | 82000       | 76×130              | 0.40               | 19.9                                   | TAP823M76130□VA     |
|                                            | 100000      | 76×155              | 0.40               | 23.1                                   | TAP104M76155□VA     |
|                                            | 120000      | 89×130              | 0.40               | 24.6                                   | TAP124M89130□VA     |
|                                            | 150000      | 89×157              | 0.40               | 29.0                                   | TAP154M89157□VA     |
| 100<br>(125)                               | 3300        | 35×60               | 0.25               | 2.9                                    | TAO332M35060□VA     |
|                                            | 3900        | 35×80               | 0.25               | 3.3                                    | TAO392M35080□VA     |
|                                            | 4700        | 35×80               | 0.25               | 3.8                                    | TAO472M35080□VA     |
|                                            | 5600        | 35×100              | 0.25               | 4.3                                    | TAO562M35100□VA     |
|                                            | 6800        | 35×100              | 0.25               | 5.0                                    | TAO682M35100□VA     |
|                                            | 8200        | 35×120              | 0.25               | 5.6                                    | TAO822M35120□VA     |
|                                            | 10000       | 35×120              | 0.25               | 6.5                                    | TAO103M35120□VA     |
|                                            | 12000       | 51×80               | 0.25               | 7.0                                    | TAO123M51080□VA     |
|                                            | 15000       | 51×95               | 0.25               | 7.7                                    | TAO153M51095□VA     |
|                                            | 18000       | 51×115              | 0.25               | 9.1                                    | TAO183M51115□VA     |
|                                            | 22000       | 51×130              | 0.25               | 11.0                                   | TAO223M51130□VA     |
|                                            | 27000       | 64×115              | 0.25               | 12.6                                   | TAO273M64115□VA     |
|                                            | 33000       | 64×130              | 0.25               | 13.1                                   | TAO333M64130□VA     |
|                                            | 39000       | 76×115              | 0.25               | 14.7                                   | TAO393M76115□VA     |
|                                            | 47000       | 76×130              | 0.35               | 15.7                                   | TAO473M76130□VA     |
|                                            | 56000       | 76×155              | 0.35               | 17.6                                   | TAO563M76155□VA     |
|                                            | 68000       | 89×130              | 0.35               | 20.7                                   | TAO683M89130□VA     |
|                                            | 82000       | 89×157              | 0.35               | 22.6                                   | TAO823M89157□VA     |
|                                            | 100000      | 89×170              | 0.35               | 26.4                                   | TAO104M89170□VA     |
|                                            | 3900        | 51×80               | 0.20               | 5.8                                    | TAN392M51080□VA     |
| 160<br>(200)                               | 4700        | 51×80               | 0.20               | 6.4                                    | TAN472M51080□VA     |
|                                            | 5600        | 51×95               | 0.20               | 7.7                                    | TAN562M51095□VA     |
|                                            | 6800        | 51×95               | 0.20               | 8.6                                    | TAN682M51095□VA     |
|                                            | 8200        | 51×115              | 0.20               | 10.0                                   | TAN822M51115□VA     |
|                                            | 10000       | 64×95               | 0.20               | 11.4                                   | TAN103M64095□VA     |
|                                            | 12000       | 64×95               | 0.20               | 12.4                                   | TAN123M64095□VA     |
|                                            | 15000       | 64×130              | 0.20               | 15.7                                   | TAN153M64130□VA     |
|                                            | 18000       | 64×130              | 0.20               | 17.2                                   | TAN183M64130□VA     |
|                                            | 22000       | 76×130              | 0.20               | 20.1                                   | TAN223M76130□VA     |
|                                            | 27000       | 76×130              | 0.20               | 22.2                                   | TAN273M76130□VA     |

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Current<br>85°C/120Hz<br>(Arms) | Catalog Part Number |
|--------------------------------------------|-------------|---------------------|--------------------|----------------------------------------|---------------------|
| 160<br>(200)                               | 33000       | 89×130              | 0.20               | 26.2                                   | TAN333M89130□VA     |
|                                            | 39000       | 89×157              | 0.20               | 30.7                                   | TAN393M89157□VA     |
|                                            | 47000       | 89×170              | 0.20               | 34.9                                   | TAN473M89170□VA     |
|                                            | 56000       | 89×195              | 0.20               | 38.1                                   | TAN563M89195□VA     |
|                                            | 68000       | 89×220              | 0.20               | 40.3                                   | TAN683M89220□VA     |
|                                            | 2200        | 35×100              | 0.20               | 3.9                                    | TAL222M35100□VA     |
|                                            | 2700        | 35×120              | 0.20               | 4.7                                    | TAL272M35120□VA     |
| 200<br>(250)                               | 3300        | 51×80               | 0.20               | 5.3                                    | TAL332M51080□VA     |
|                                            | 3900        | 51×80               | 0.20               | 5.7                                    | TAL392M51080□VA     |
|                                            | 4700        | 51×95               | 0.20               | 6.4                                    | TAL472M51095□VA     |
|                                            | 5600        | 51×115              | 0.20               | 7.6                                    | TAL562M51115□VA     |
|                                            | 6800        | 51×130              | 0.20               | 8.8                                    | TAL682M51130□VA     |
|                                            | 8200        | 64×95               | 0.20               | 9.4                                    | TAL822M64095□VA     |
|                                            | 10000       | 64×95               | 0.20               | 10.5                                   | TAL103M64095□VA     |
|                                            | 12000       | 76×95               | 0.20               | 12.1                                   | TAL123M76095□VA     |
|                                            | 15000       | 76×95               | 0.20               | 14.4                                   | TAL153M76095□VA     |
|                                            | 18000       | 76×130              | 0.20               | 16.5                                   | TAL183M76130□VA     |
|                                            | 22000       | 76×155              | 0.20               | 19.6                                   | TAL223M76155□VA     |
|                                            | 27000       | 89×130              | 0.20               | 21.5                                   | TAL273M89130□VA     |
|                                            | 33000       | 76×170              | 0.20               | 24.0                                   | TAL333M76170□VA     |
|                                            | 39000       | 89×160              | 0.20               | 25.5                                   | TAL333M89160□VA     |
|                                            | 36000       | 89×160              | 0.20               | 26.8                                   | TAL363M89160□VA     |
|                                            | 47000       | 89×195              | 0.20               | 35.1                                   | TAL473M89195□VA     |
|                                            | 56000       | 89×220              | 0.20               | 39.1                                   | TAL563M89220□VA     |
|                                            | 68000       | 100×220             | 0.20               | 47.5                                   | TAL683M00220□VA     |
|                                            | 1800        | 35×100              | 0.20               | 3.8                                    | TAJ182M35100□VA     |
|                                            | 2200        | 51×80               | 0.20               | 4.4                                    | TAJ222M51080□VA     |
| 250<br>(300)                               | 2700        | 51×80               | 0.20               | 5.0                                    | TAJ272M51080□VA     |
|                                            | 3300        | 51×95               | 0.20               | 5.9                                    | TAJ332M51095□VA     |
|                                            | 3900        | 51×115              | 0.20               | 6.9                                    | TAJ392M51115□VA     |
|                                            | 4700        | 64×95               | 0.20               | 7.8                                    | TAJ472M64095□VA     |
|                                            | 5600        | 64×95               | 0.20               | 8.6                                    | TAJ562M64095□VA     |
|                                            | 6800        | 64×115              | 0.20               | 10.0                                   | TAJ682M64115□VA     |
|                                            | 8200        | 64×115              | 0.20               | 11.0                                   | TAJ822M64115□VA     |
|                                            | 10000       | 64×130              | 0.20               | 12.9                                   | TAJ103M64130□VA     |
|                                            | 12000       | 76×115              | 0.20               | 14.3                                   | TAJ123M76115□VA     |
|                                            | 15000       | 76×130              | 0.20               | 16.6                                   | TAJ153M76130□VA     |
|                                            | 18000       | 76×155              | 0.20               | 19.5                                   | TAJ183M76155□VA     |
|                                            | 22000       | 89×160              | 0.20               | 23.2                                   | TAJ223M89160□VA     |
| 350<br>(400)                               | 33000       | 89×170              | 0.20               | 29.4                                   | TAJ333M89170□VA     |
|                                            | 47000       | 89×235              | 0.20               | 39.6                                   | TAJ473M89235□VA     |
|                                            | 56000       | 100×235             | 0.20               | 44.6                                   | TAJ563M00235□VA     |
|                                            | 1500        | 51×95               | 0.15               | 5.4                                    | TAH152M51095□VA     |
|                                            | 1800        | 51×95               | 0.15               | 6.0                                    | TAH182M51095□VA     |
|                                            | 2200        | 51×115              | 0.15               | 7.2                                    | TAH222M51115□VA     |
|                                            | 2700        | 51×130              | 0.15               | 8.4                                    | TAH272M51130□VA     |
|                                            | 3300        | 51×130              | 0.15               | 8.8                                    | TAH332M51130□VA     |
|                                            | 3900        | 64×115              | 0.15               | 10.9                                   | TAH392M64115□VA     |
|                                            | 4700        | 64×130              | 0.15               | 12.6                                   | TAH472M64130□VA     |
|                                            | 5600        | 76×115              | 0.15               | 13.7                                   | TAH562M76115□VA     |
|                                            | 6800        | 76×130              | 0.15               | 15.9                                   | TAH682M76130□VA     |
| 350<br>(400)                               | 8200        | 76×155              | 0.15               | 18.9                                   | TAH822M76155□VA     |
|                                            | 10000       | 89×157              | 0.15               | 21.5                                   | TAH103M89157□VA     |
|                                            | 12000       | 89×157              | 0.15               | 23.6                                   | TAH123M89157□VA     |
|                                            | 15000       | 89×195              | 0.15               | 26.7                                   | TAH153M89195□VA     |
|                                            | 18000       | 89×235              | 0.15               | 33.4                                   | TAH183M89235□VA     |
|                                            | 18000       | 100×155             | 0.15               | 31.6                                   | TAH183M00235□VA     |
|                                            | 22000       | 100×220             | 0.15               | 34.5                                   | TAH223M00220□VA     |
|                                            | 39000       | 100×237             | 0.15               | 47.6                                   | TAH393M00237□VA     |

\*□Enter the appropriate terminal code



# TA SERIES

## ◆ Standard Ratings

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C120Hz | Ripple Current<br>85°C120Hz<br>(Arms) | Catalog Part Number |
|--------------------------------------------|-------------|---------------------|-------------------|---------------------------------------|---------------------|
| 400<br>(450)                               | 820         | 35×100              | 0.15              | 3.5                                   | TAG821M35100□VA     |
|                                            | 1000        | 51×80               | 0.15              | 4.5                                   | TAG102M51080□VA     |
|                                            | 1200        | 51×80               | 0.15              | 4.9                                   | TAG122M51080□VA     |
|                                            | 1500        | 51×95               | 0.15              | 6.0                                   | TAG152M51095□VA     |
|                                            | 1800        | 51×95               | 0.15              | 6.5                                   | TAG182M51095□VA     |
|                                            | 2200        | 51×115              | 0.15              | 7.5                                   | TAG222M51115□VA     |
|                                            | 2200        | 64×80               | 0.15              | 7.3                                   | TAG222M64080□VA     |
|                                            | 2200        | 64×95               | 0.15              | 7.9                                   | TAG222M64095□VA     |
|                                            | 2700        | 64×95               | 0.15              | 9.8                                   | TAG272M64095□VA     |
|                                            | 2700        | 76×95               | 0.15              | 10.8                                  | TAG272M76095□VA     |
|                                            | 3300        | 64×105              | 0.15              | 10.1                                  | TAG332M64105□VA     |
|                                            | 3300        | 64×110              | 0.15              | 10.3                                  | TAG332M64110□VA     |
|                                            | 3300        | 64×115              | 0.15              | 10.5                                  | TAG332M64115□VA     |
|                                            | 3300        | 76×95               | 0.15              | 10.7                                  | TAG332M76095□VA     |
|                                            | 3900        | 64×130              | 0.15              | 12.0                                  | TAG392M64130□VA     |
|                                            | 3900        | 76×95               | 0.15              | 11.5                                  | TAG392M76095□VA     |
|                                            | 4700        | 76×115              | 0.15              | 13.8                                  | TAG472M76115□VA     |
|                                            | 5600        | 76×130              | 0.15              | 15.8                                  | TAG562M76130□VA     |
|                                            | 6800        | 76×145              | 0.15              | 17.2                                  | TAG682M76145□VA     |
|                                            | 6800        | 76×150              | 0.15              | 17.5                                  | TAG682M76150□VA     |
|                                            | 6800        | 76×155              | 0.15              | 17.8                                  | TAG682M76155□VA     |
|                                            | 6800        | 89×130              | 0.15              | 18.1                                  | TAG682M89130□VA     |
|                                            | 8200        | 89×145              | 0.15              | 19.3                                  | TAG822M89145□VA     |
|                                            | 8200        | 89×157              | 0.15              | 20.0                                  | TAG822M89157□VA     |
|                                            | 10000       | 89×157              | 0.15              | 22.0                                  | TAG103M89157□VA     |
| 450<br>(500)                               | 12000       | 89×195              | 0.15              | 25.0                                  | TAG123M89195□VA     |
|                                            | 15000       | 89×220              | 0.15              | 28.7                                  | TAG153M89220□VA     |
|                                            | 15000       | 89×235              | 0.15              | 29.5                                  | TAG153M89235□VA     |
|                                            | 18000       | 89×235              | 0.15              | 32.3                                  | TAG183M89235□VA     |
|                                            | 22000       | 100×237             | 0.15              | 34.9                                  | TAG223M00237□VA     |
|                                            | 820         | 51×80               | 0.15              | 4.1                                   | TAE821M51080□VA     |
|                                            | 1000        | 51×80               | 0.15              | 4.5                                   | TAE102M51080□VA     |
|                                            | 1200        | 51×95               | 0.15              | 5.3                                   | TAE122M51095□VA     |
|                                            | 1500        | 51×115              | 0.15              | 6.5                                   | TAE152M51115□VA     |
|                                            | 1800        | 51×130              | 0.15              | 7.3                                   | TAE182M51130□VA     |
|                                            | 2200        | 64×95               | 0.15              | 8.2                                   | TAE222M64095□VA     |
|                                            | 2700        | 64×115              | 0.15              | 9.9                                   | TAE272M64115□VA     |
|                                            | 3300        | 64×130              | 0.15              | 11.5                                  | TAE332M64130□VA     |
|                                            | 3900        | 76×115              | 0.15              | 13.1                                  | TAE392M76115□VA     |
|                                            | 4700        | 76×130              | 0.15              | 14.8                                  | TAE472M76130□VA     |
|                                            | 5600        | 76×155              | 0.15              | 17.4                                  | TAE562M76155□VA     |
|                                            | 6800        | 89×157              | 0.15              | 19.6                                  | TAE682M89157□VA     |
| 500<br>(550)                               | 8200        | 89×157              | 0.15              | 21.6                                  | TAE822M89157□VA     |
|                                            | 10000       | 89×195              | 0.15              | 24.5                                  | TAE103M89195□VA     |
|                                            | 12000       | 89×235              | 0.15              | 27.3                                  | TAE123M89235□VA     |
|                                            | 15000       | 89×235              | 0.15              | 30.5                                  | TAE153M89235□VA     |
|                                            | 18000       | 100×220             | 0.15              | 33.4                                  | TAE183M00220□VA     |
|                                            | 22000       | 100×260             | 0.15              | 38.7                                  | TAE223M00260□VA     |
|                                            | 1000        | 51×115              | 0.20              | 5.3                                   | TAC102M51115□VA     |
|                                            | 1200        | 51×115              | 0.20              | 5.8                                   | TAC122M51115□VA     |
|                                            | 1500        | 51×130              | 0.20              | 6.8                                   | TAC152M51130□VA     |
|                                            | 1800        | 64×115              | 0.20              | 8.1                                   | TAC182M64115□VA     |
| 500<br>(550)                               | 2200        | 64×130              | 0.20              | 9.4                                   | TAC222M64130□VA     |
|                                            | 2700        | 76×115              | 0.20              | 10.9                                  | TAC272M76115□VA     |
|                                            | 3300        | 76×130              | 0.20              | 12.4                                  | TAC332M76130□VA     |

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C120Hz | Ripple Current<br>85°C120Hz<br>(Arms) | Catalog Part Number |
|--------------------------------------------|-------------|---------------------|-------------------|---------------------------------------|---------------------|
| 500<br>(550)                               | 3900        | 76×130              | 0.20              | 13.4                                  | TAC392M76130□VA     |
|                                            | 4700        | 76×155              | 0.20              | 15.9                                  | TAC472M76155□VA     |
|                                            | 5600        | 89×157              | 0.20              | 17.7                                  | TAC562M89157□VA     |
|                                            | 6800        | 89×170              | 0.20              | 20.3                                  | TAC682M89170□VA     |
|                                            | 8200        | 76×220              | 0.20              | 21.7                                  | TAC822M76220□VA     |
|                                            | 10000       | 89×235              | 0.20              | 26.9                                  | TAC103M89235□VA     |
| 550<br>(600)                               | 1000        | 51×130              | 0.20              | 5.2                                   | TAZ102M51130□VA     |
|                                            | 1200        | 51×130              | 0.20              | 5.7                                   | TAZ122M51130□VA     |
|                                            | 1500        | 64×115              | 0.20              | 6.9                                   | TAZ152M64115□VA     |
|                                            | 1800        | 76×95               | 0.20              | 7.6                                   | TAZ182M76095□VA     |
|                                            | 2200        | 76×115              | 0.20              | 8.5                                   | TAZ222M76115□VA     |
|                                            | 2700        | 76×130              | 0.20              | 10.0                                  | TAZ272M76130□VA     |
|                                            | 3300        | 89×130              | 0.20              | 11.7                                  | TAZ332M89130□VA     |
|                                            | 4700        | 89×157              | 0.20              | 15.0                                  | TAZ472M89157□VA     |
|                                            | 5600        | 89×170              | 0.20              | 17.1                                  | TAZ562M89170□VA     |
|                                            | 6800        | 89×195              | 0.20              | 19.5                                  | TAZ682M89195□VA     |
|                                            | 8200        | 89×220              | 0.20              | 23.6                                  | TAZ822M89220□VA     |
|                                            | 10000       | 89×250              | 0.20              | 25.3                                  | TAZ103M89250□VA     |
| 600<br>(650)                               | 1000        | 64×80               | 0.20              | 6.2                                   | TAB102M64080□VA     |
|                                            | 1200        | 64×95               | 0.20              | 6.7                                   | TAB122M64095□VA     |
|                                            | 1500        | 64×115              | 0.20              | 8.0                                   | TAB152M64115□VA     |
|                                            | 1800        | 76×95               | 0.20              | 9.6                                   | TAB182M76095□VA     |
|                                            | 2200        | 76×115              | 0.20              | 11.5                                  | TAB222M76115□VA     |
|                                            | 2700        | 76×130              | 0.20              | 12.1                                  | TAB272M76130□VA     |
|                                            | 3300        | 76×155              | 0.20              | 15.3                                  | TAB332M76155□VA     |
|                                            | 3900        | 76×195              | 0.20              | 18.4                                  | TAB392M76195□VA     |
|                                            | 4700        | 89×157              | 0.20              | 19.2                                  | TAB472M89157□VA     |
|                                            | 5600        | 89×195              | 0.20              | 22.0                                  | TAB562M89195□VA     |
| 650<br>(700)                               | 6800        | 89×220              | 0.20              | 24.0                                  | TAB682M89220□VA     |
|                                            | 1000        | 64×115              | 0.20              | 6.0                                   | TAA102M64115□VA     |
|                                            | 1200        | 64×130              | 0.20              | 6.9                                   | TAA122M64130□VA     |
|                                            | 1500        | 76×115              | 0.20              | 8.1                                   | TAA152M76115□VA     |
|                                            | 1800        | 76×130              | 0.20              | 9.5                                   | TAA182M76130□VA     |
|                                            | 2200        | 76×155              | 0.20              | 10.6                                  | TAA222M76155□VA     |
|                                            | 2700        | 89×130              | 0.20              | 12.5                                  | TAA272M89130□VA     |
|                                            | 3300        | 89×157              | 0.20              | 14.5                                  | TAA332M89157□VA     |
|                                            | 3900        | 89×170              | 0.20              | 16.0                                  | TAA392M89170□VA     |
|                                            | 4700        | 89×195              | 0.20              | 18.6                                  | TAA472M89195□VA     |
| 700<br>(750)                               | 5600        | 89×220              | 0.20              | 21.4                                  | TAA562M89220□VA     |
|                                            | 1000        | 64×130              | 0.20              | 5.2                                   | TA5102M64130□VA     |
|                                            | 1200        | 76×115              | 0.20              | 5.9                                   | TA5122M76115□VA     |
|                                            | 1500        | 76×130              | 0.20              | 6.9                                   | TA5152M76130□VA     |
|                                            | 1800        | 76×155              | 0.20              | 8.2                                   | TA5182M76155□VA     |
|                                            | 2200        | 89×157              | 0.20              | 9.9                                   | TA5222M89157□VA     |
|                                            | 2700        | 89×170              | 0.20              | 11.5                                  | TA5272M89170□VA     |
|                                            | 3300        | 89×195              | 0.20              | 13.1                                  | TA5332M89195□VA     |
|                                            | 3900        | 89×220              | 0.20              | 15.0                                  | TA5392M89220□VA     |
|                                            | 820         | 64×115              | 0.20              | 4.5                                   | TA6821M64115□VA     |
| 750<br>(800)                               | 1000        | 64×130              | 0.20              | 5.3                                   | TA6102M64130□VA     |
|                                            | 1200        | 76×115              | 0.20              | 6.0                                   | TA6122M76115□VA     |
|                                            | 1500        | 76×145              | 0.20              | 7.1                                   | TA6152M76145□VA     |
|                                            | 1800        | 76×170              | 0.20              | 8.4                                   | TA6182M76170□VA     |
|                                            | 2200        | 76×195              | 0.20              | 10.2                                  | TA6222M76195□VA     |
|                                            | 2700        | 89×170              | 0.20              | 11.8                                  | TA6272M89170□VA     |
|                                            | 3300        | 89×195              | 0.20              | 13.4                                  | TA6332M89195□VA     |

\*□Enter the appropriate terminal code

\*Please ask for advice for other sizes.

\*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. the useful life will be half of original life when temp rises every 5°C. Please reduce the ripple current when using capacitor.