

## LARGE SIZES ALUMINUM ELECTROLYTIC CAPACITORS



### TP Series

● 105℃ 5,000Hrs assured.

- Non-solvent proof.
- High ripple capability.
- Long life
- RoHS compliant.
- Halogen-free capacitors are also available.

TP Series



### SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	160 ~ 450 V <sub>DC</sub>
Operating Temperature Range	-25 ~ +105℃
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I = 0.02CV or 5mA, whichever is smaller. Where, I : Max. Leakage current(μA) C : Nominal capacitance(μF) V : Rated voltage(V <sub>DC</sub> ) (at 20℃, 5minutes)
Dissipation Factor ( tan δ )	Tan δ shall not exceed the values shown in the RATINGS. (at 20℃, 120Hz)
Temperature Characteristics (Capacitance change ratio)	$C(-25℃)/C(20℃) ≥ 0.7$ (at 120Hz)
Insulation Withstanding Voltage	When a voltage of 2,000V <sub>AC</sub> is applied for one minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃, after subjected to DC voltage with the rated ripple current is applied 5,000 hours at 105℃. <div> Capacitance change ≤ ±20 % of the initial value  tan δ ≤ 200 % of the initial specified value  Leakage current ≤ The initial specified value </div>
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃, after exposing them at 105℃ for 1,000 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. <div> Capacitance change ≤ ±20 % of the initial value  tan δ ≤ 200 % of the initial specified value  Leakage current ≤ The initial specified value </div>
Others	Satisfied characteristics W of KS C 6421

- Please consult with us about detail specification.

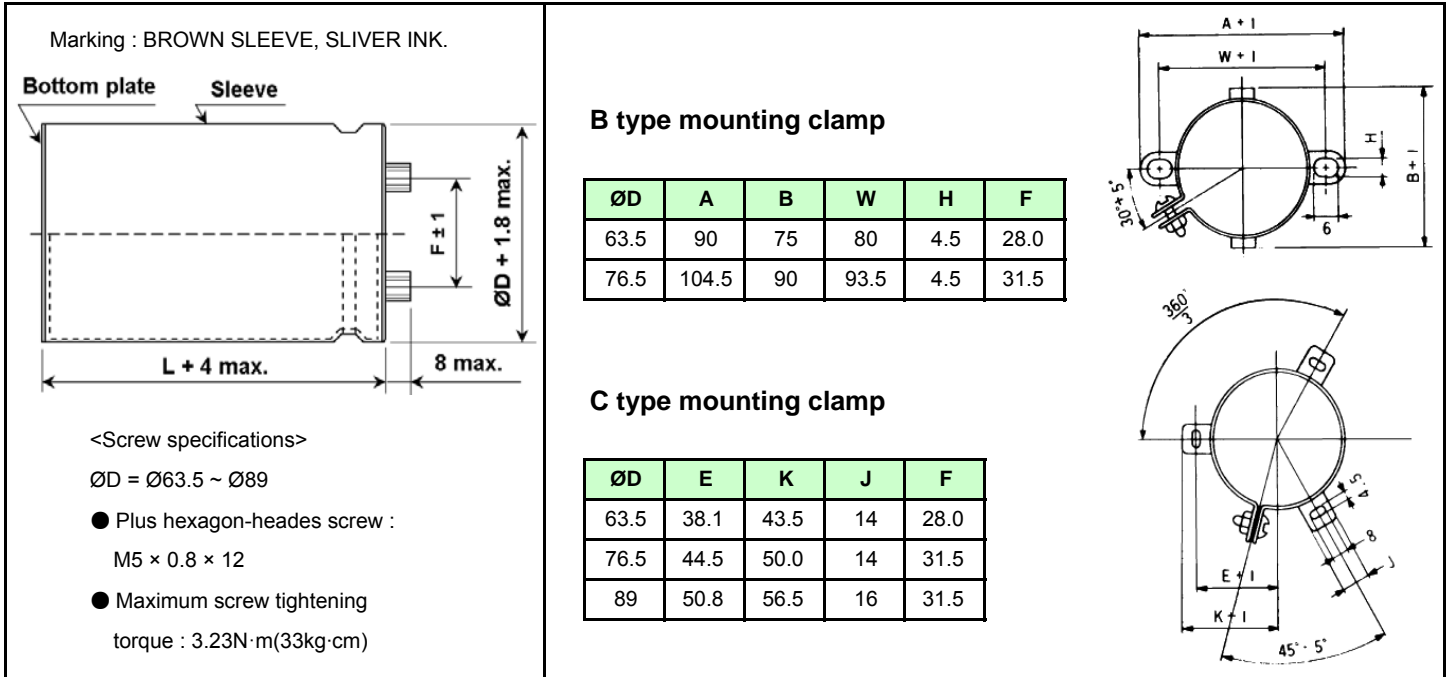
### RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multiplying Factor

Frequency(Hz)	120	300	1k	3k
Factor	1.0	1.1	1.3	1.4

**DIMENSIONS OF TP Series**

Unit(mm)

**RATINGS OF TP Series**

WV(V <sub>DC</sub> )	Cap.( $\mu\text{F}$ )	Capacitance Tolerance	Case size $\varnothing D \times L(\text{mm})$	$\tan \delta$	Rated ripple current (Arms/105°C, 120Hz)
350	3,300	M	76.5 × 120	0.15	16.0
400	1,300	M	63.5 × 95	0.15	7.7
	2,700	M	76.5 × 115	0.15	14.1
	3,800	M	76.5 × 155	0.15	17.2
450	4,700	M	76.5 × 130	0.15	22.0
	8,200	M	89 × 155	0.15	27.8