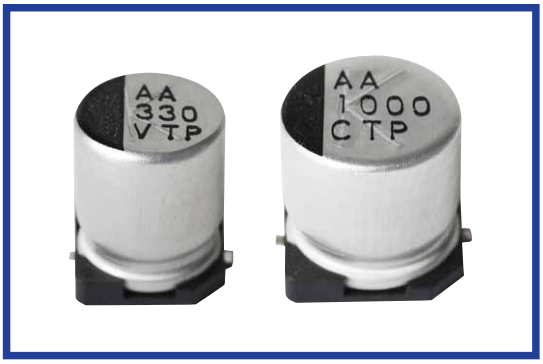
TPV SERIES NEW

105℃ Low ESR , Miniaturized, Lead Free Reflow Soldering.



◆FEATURES

- Load Life 105℃ 2000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- Prescribe ESR value at 100 kHz.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−55～+105℃
Rated Voltage Range	6.3～35V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	(20℃,120Hz) When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.
Endurance	After applying rated voltage for 2000 hours at 105℃, the capacitor shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (V)	6.3	10	16	25	35
tanδ	0.26	0.19	0.16	0.14	0.12

Endurance

Capacitance Change	Within ±30% of the initially measured value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

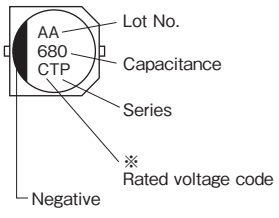
Low Temperature Stability Impedance Ratio(MAX)

Rated Voltage (V)	6.3	10	16	25	35
Z(−25℃)/Z(20℃)	2	2	2	2	2
Z(−40℃)/Z(20℃)	3	3	3	3	3
Z(−55℃)/Z(20℃)	4	4	4	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency(Hz)	120	1k	10k	100k≦
Coefficient	0.60	0.80	0.95	1.00

◆MARKING



※Voltage code

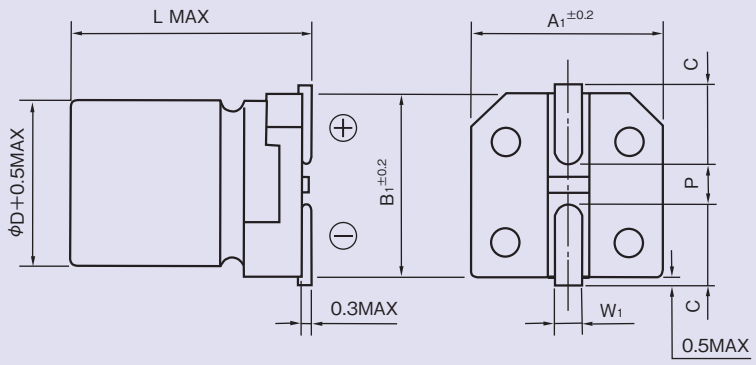
Rated Voltage (V)	6.3	10	16	25	35
Voltage code	j	A	C	E	V

◆PART NUMBER

□□□	TPV	□□□□□	M	□□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Case Size

◆DIMENSIONS

(mm)



ϕD	L	A1	B1	C	W1	P
8	10.5	8.3	8.3	2.9	0.8～1.1	3.1
10	10.5	10.3	10.3	3.2	0.8～1.1	4.5

◆STANDARD SIZE

Size ϕDXL(mm), Ripple current(mA r.m.s./105℃,100kHz), ESR(Ω MAX/20℃, 100kHz)

V.DC	Cap (μF)	Size (ϕDXL)	Ripple	ESR
6.3 (0J)	1200	8×10.5	850	0.080
	2200	10×10.5	1190	0.060
10 (1A)	1000	8×10.5	850	0.080
	1500	10×10.5	1190	0.060
16 (1C)	680	8×10.5	850	0.080
	1000	10×10.5	1190	0.060
25 (1E)	470	8×10.5	850	0.080
	820	10×10.5	1190	0.060
35 (1V)	330	8×10.5	850	0.080
	560	10×10.5	1190	0.060