

# ALUMINUM ELECTROLYTIC CAPACITORS

Suntan®

CHIP TYPE SERIES

# TS13CY

## FEATURES

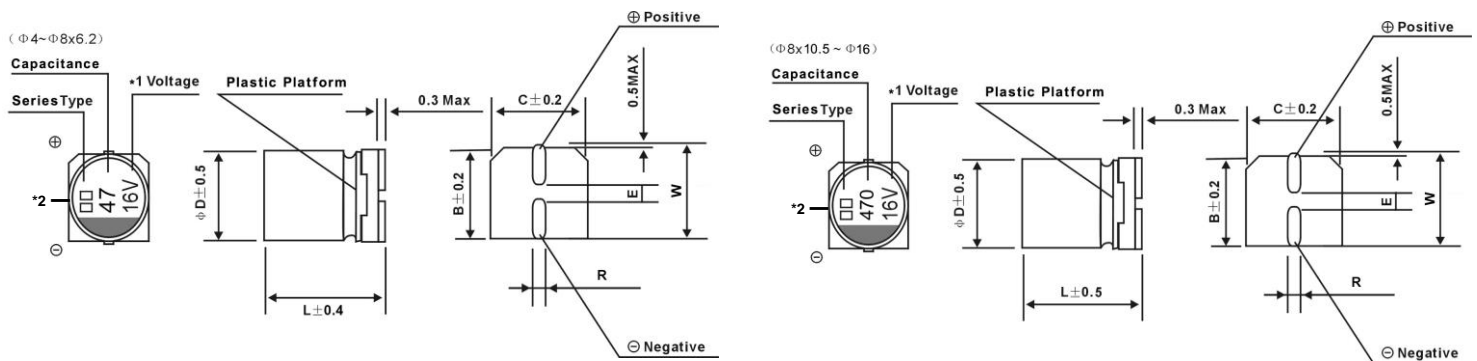
- 105°C 2,000 hours
- Solvent proof (within 2 minutes)



## ◆ Specifications

ITEMS		PERFORMANCE CHARACTERISTICS							
Rated Voltage (V)	-	6.3	10	16	25	35	50		
Surge Voltage (V)	Room temperature	8.0	13	20	32	44	63		
Category Temperature Range (°C)	-	-55 to +105							
Capacitance Tolerance (%)	120Hz/20°C	M : ±20							
Dissipation Factor (Tanδ)	tanδ (max) 120Hz/20°C	0.26	0.20	0.18	0.16	0.14	0.12		
Leakage Current (LC)	µA/after 2minutes (max)	The greater value of either 0.01CV or 3µA							
Impedance Ratio at Low Temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z20°C	3	3	3	3	3	3
		-55°C	Z/Z20°C	4	4	4	3	3	3
Endurance	105°C, 2,000hours rated voltage applied (With the rated ripple current)	ΔC/C	Within ±20% of the initial value						
		tanδ	Less than 200% of the specified value						
		LC	Less than the specified value						

## ◆ Chip type



\*3 [L±0.5] is applicable to Φ8×10.5~Φ10 ; \*4 [L±1.0] is applicable to Φ12.5~Φ16.

\*1 Voltage mark for 6.3V is [6V] or [6.3V]

Re: Date code and series type-  
1<sup>st</sup> digit for ear;  
2<sup>nd</sup> digit for Quarter, 4 quarter codes in one year are 1.4.7.0;  
3<sup>rd</sup> character for Series, TS13CA series=F

\*2 Markings: SuY, RZ

ΦDxL	6.3x5.8	6.3x7.7	8x10.5	10x10.	10x13.5
B	6.6	6.6	8.3	10.3	10.3
C	6.6	6.6	8.3	10.3	10.3
E±0.2	2.2	2.2	3.1	4.4	4.4
L	5.8	7.7	10.5	10.5	13.5
R	0.5 to 0.8	0.5 to 0.8	0.7 to 1.2	0.7 to 1.2	0.7 to 1.2
W	7.3	7.3	9.2	11.2	11.2

# TS13CY

◆ Standard size & Maximum permissible ripple current & Impedance

WV Cap/uF		6.3			10			16		
		0J			1A			1C		
33	330									
47	470							6.3x5.8	0.26	300
68	680							6.3x5.8	0.26	300
100	101	6.3x5.8	0.26	300				6.3x5.8 (6.3x7.7)	0.26 (0.16)	300 (600)
150	151				6.3x5.8	0.26	300	6.3x7.7	0.16	600
220	221	6.3x5.8	0.26	300	6.3x7.7	0.16	600	6.3x7.7	0.16	600
330	331	6.3x7.7	0.16	600	8x10.5	0.08	850	8x10.5	0.08	850
390	39									
470	471	8x10.5	0.08	850	8x10.5	0.08	850	8x10.5	0.08	850
560	561									
680	681				8x10.5	0.08	850	10x10.5	0.06	1190
820	821							10x10.5	0.08	850
1000	102	8x10.5	0.08	850	10x10.5	0.06	1190			
1200	122				10x10.5	0.08	850	Case size	ESR (Ω) , 20°C	Rated ripple current
1500	152	10x10.5	0.06	1190						

WV Cap/uF		25			35			50		
		1E			1V			1H		
33	330	6.3x5.8	0.26	300	6.3x5.8	0.26	300			
47	470	6.3x5.8	0.26	300	6.3x5.8	0.26	300			
68	680	6.3x5.8	0.26	300	6.3x7.7	0.16	600			
100	101	6.3x7.7	0.16	600	6.3x7.7 (8x10.5)	0.16 (0.08)	600 (850)	8x10.5	0.18	670
150	151	8x10.5	0.08	850	8x10.5	0.08	850			
220	221	8x10.5	0.08	850	8x10.5	0.08	850	10x10.5	0.12	900
330	331	8x10.5	0.08	850	10x10.5	0.06	1190			
390	391				10x10.5	0.08	850			
470	471	10x10.5	0.06	1190				Case size:	ESR (Ω) , 20°C	Rated ripple current
560	561	10x10.5	0.08	850						

Case size: ΦDxL(mm)  
ESR (Ω)max at 100kHz, 20°C  
Rated ripple current mArms(100kHz, 105°C)

◆ Frequency coefficient Factor of Rated Ripple current

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C( μF)	C≤33	0.35	0.70	0.90	1.00
	33<C≤150	0.40	0.85	0.92	1.00
	150<C	0.60	0.85	0.95	1.00

Note: Specification are subject to change without notice. For more detail and update, please visit our website.