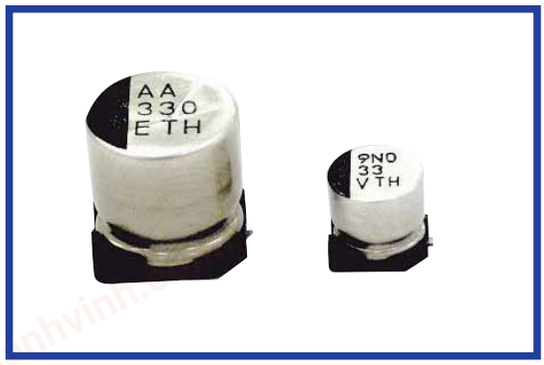
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Rubycon

CHIP ALUMINUM ELECTROLYTIC CAPACITORS THV

THV SERIES UPGRADE

125℃ Low ESR, Lead Free Reflow Soldering.



◆FEATURES

- Load Life : 125℃ 2000~3000 hours Low ESR.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

◆SPECIFICATIONS

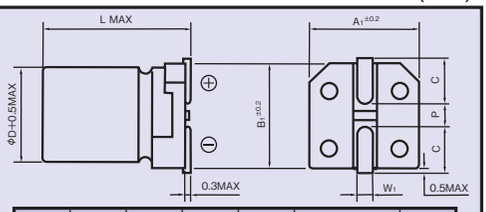
Items	Characteristics
Category Temperature Range	−40~+125℃
Rated Voltage Range	16~50V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=(μA) Leakage Current C=(μF) Rated Capacitance V=(V) Rated Voltage
(tanδ) Dissipation Factor(MAX)	(20℃,120Hz)
Endurance	xAfter life test with rated ripple current at conditions stated in the teble below, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage	16	25	35	50
tanδ	0.23	0.18	0.16	0.14

Capacitance Change	Within ±30% of the initial value.	Case Size	(hrs) LifeTime
Dissipation Factor	Not more than 300% of the specified value.	φD=6.3	2000
Leakage Current	Not more than the specified value.	φD≧8	3000

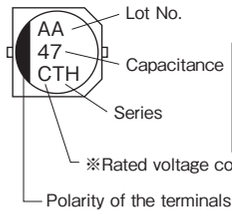
Rated Voltage	16	25	35	50
Z(−40℃)/Z(20℃)	4	4	3	3

◆DIMENSIONS (mm)



φD	L	A1	B1	C	W1	P
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8
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

◆MARKING



※Voltage Code

Rated Voltage	16	25	35	50
Rated Voltage code	C	E	V	H

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

(Hz) Frequency		120	1k	10k	100k≦
Coefficient	22~33μF	0.45	0.75	0.90	1.00
	47~100μF	0.50	0.80	0.95	1.00
	220~330μF	0.60	0.85	0.95	1.00

◆STANDARD SIZE

Size φD×L(mm), Ripple Current (mA r.m.s./125℃, 100kHz), ESR(Ω MAX/100kHz)

WV (V.DC)	Cap (μF)	Size (φDxL)	Ripple	ESR 20℃	ESR -40℃
16 (1C)	33	6.3×6.1	70	1	15
	47	6.3×8	200	0.7	10
	100	6.3×8	200	0.7	10
	100	8×10.5	300	0.3	3
	220	8×10.5	300	0.3	3
	220	10×10.5	500	0.2	2
	330	10×10.5	500	0.2	2

WV (V.DC)	Cap (μF)	Size (φDxL)	Ripple	ESR 20℃	ESR -40℃
25 (1E)	33	6.3×6.1	70	1	15
	47	6.3×8	200	0.7	10
	100	8×10.5	300	0.3	3
	220	8×10.5	300	0.3	3
	220	10×10.5	500	0.2	2
	330	10×10.5	500	0.2	2

WV (V.DC)	Cap (μF)	Size (φDxL)	Ripple	ESR 20℃	ESR -40℃
35 (1V)	22	6.3×8	200	0.7	10
	33	6.3×6.1	70	1	15
	33	6.3×8	200	0.7	10
	47	6.3×8	200	0.7	10
	47	8×10.5	300	0.3	3
	100	8×10.5	300	0.3	3
	100	10×10.5	500	0.2	2
	220	10×10.5	500	0.2	2
50 (1H)	22	6.3×8	150	0.9	13
	33	6.3×8	150	0.9	13
	33	8×10.5	250	0.36	3.6
	47	8×10.5	250	0.36	3.6
	47	10×10.5	350	0.25	2.5
	100	10×10.5	350	0.25	2.5

◆PART NUMBER

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