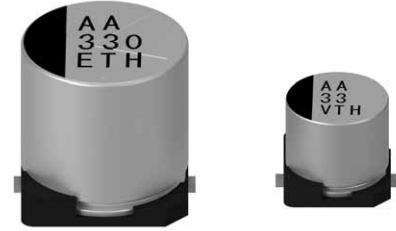


THV SERIES

Load Life : 125°C 2000~3000 hours Low ESR

•AEC-Q200.

RoHS
compliance



SPECIFICATIONS

Items	Characteristics				
Category Temperature Range	-40~+125°C				
Rated Voltage Range	16~50Vdc				
Capacitance Tolerance	±20% (20°C, 120Hz)				
Leakage Current(MAX)	$I = 0.01CV$ or $3\mu A$ whichever is greater. (After 2 minutes application of rated voltage) $I = \text{Leakage Current}(\mu A)$ $C = \text{Capacitance}(\mu F)$ $V = \text{Rated Voltage}(Vdc)$				
Dissipation Factor(MAX) (tanδ)	Rated Voltage (Vdc)	16	25	35	50
	tanδ	0.23	0.18	0.16	0.14
Endurance	After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements.				
	Capacitance Change	Within ±30% of the initial value.			Case Size
	Dissipation Factor	Not more than 300% of the specified value.			φD=6.3
	Leakage Current	Not more than the specified value.			φD≥8
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)	16	25	35	50
	$Z(-40^{\circ}C)/Z(20^{\circ}C)$	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

Rated Voltage (Vdc)	16	25	35	50
Rated Voltage code	C	E	V	H

MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	120	1k	10k	100k≤
10~33μF	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), Rated Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

Vdc	Cap (μF)	Size (φD×L)	Ripple	ESR	
				20°C	-40°C
16	33	6.3×6.1	70	1	15
	47	6.3×8	200	0.7	10
	100	6.3×8	200	0.7	10
		8×10.5	300	0.3	4.5
	220	8×10.5	300	0.3	4.5
		10×10.5	500	0.2	3
	330	10×10.5	500	0.2	3

Vdc	Cap (μF)	Size (φD×L)	Ripple	ESR	
				20°C	-40°C
25	33	6.3×6.1	70	1	15
	47	6.3×8	200	0.7	10
	100	8×10.5	300	0.3	4.5
		8×10.5	300	0.3	4.5
	220	10×10.5	500	0.2	3
		10×10.5	500	0.2	3

Vdc	Cap (μF)	Size (φD×L)	Ripple	ESR	
				20°C	-40°C
35	22	6.3×8	200	0.7	10
	33	6.3×6.1	70	1	15
		6.3×8	200	0.7	10
	47	6.3×8	200	0.7	10
		8×10.5	300	0.3	4.5
	100	8×10.5	300	0.3	4.5
		10×10.5	500	0.2	3
	220	10×10.5	500	0.2	3
50	10	6.3×6.1	70	1	15
	22	6.3×8	150	0.9	10
	33	6.3×8	150	0.9	10
		8×10.5	250	0.36	4.5
	47	8×10.5	250	0.36	4.5
		10×10.5	350	0.25	3
	100	10×10.5	350	0.25	3

PART NUMBER

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