

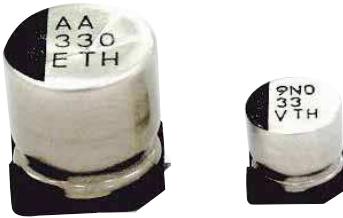
THV SERIES

UPGRADE

125°C Low ESR, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 125°C 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°C					
Rated Voltage Range	16~50V.DC					
Capacitance Tolerance	$\pm 20\%$ (20°C,120Hz)					
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=(μA) C=(μF) V=(V) Leakage Current Rated Capacitance Rated Voltage					
(tanδ) Dissipation Factor(MAX)	Rated Voltage	16	25	35	50	(20°C,120Hz)
	tanδ	0.23	0.18	0.16	0.14	
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.					
	Capacitance Change	Within $\pm 30\%$ 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
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage	16	25	35	50	(120Hz)
	Z(-40°C)/Z(20°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

AA	47	CTH	Lot No.		
Capacitance	※ Voltage Code				
Series	Rated Voltage	16	25	35	50
	Rated Voltage code	C	E	V	H

※ Rated voltage code
— Polarity of the terminals

◆ MULTIPLIER FOR RIPPLE CURRENT
Frequency Coefficient

(Hz) Frequency	120	1k	10k	100k
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°C, 100kHz), ESR(Ω MAX/100kHz)

WV (V.DC)	Cap (μF)	Size (φDxL)	Ripple	ESR	
				20°C	-40°C
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°C	-40°C
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°C	-40°C
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
50 (1H)	22	6.3×8	500	0.2	2
	22	6.3×8	500	0.2	2
	33	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 □□□ DXL
Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Case Size