

Surface Mount Type

Series: **TA** Type : **V**

Country of Origin
Japan



- Features**
 - Endurance: 125°C 1000 h
 - For use near car engines.
 - Good for electronically controlled units (ECU, ABS etc).
 - Vibration-proof product is available upon request. (φ8 ≤)
 - RoHS directive not compliant.
 - TG series is recommended for RoHS compliant.

■ Specifications

Category temp. range	-40 to +125°C						
Rated W.V. Range	10 to 50 V .DC						
Nominal Cap. Range	10 to 330 μF						
Capacitance Tolerance	±20 % (120Hz/+20°C)						
DC Leakage Current	I ≤ 0.01 CV or 3(μA) after 2 minutes (Whichever is greater)						
tan δ	Please see the attached standard products list						
Characteristics at Low Temperature	W.V. (V)	10	16	25	35	50	(Impedance ratio at 120Hz)
	-25 / +20 °C	8	5	4	3	3	
	-40 / +20 °C	14	12	10	8	8	
Endurance	After applying rated working voltage for 1000 hours at +125±2°C and then being stabilized at +20°C, capacitors shall meet the following limits.						
	Capacitance change	±30 % of initial measured value					
	tan δ	≤ 300 % of initial specified value					
	DC leakage current	≤ initial specified value					
Shelf Life	After storage for 500 hours at +125±2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the following limits. (With voltage treatment)						
	Capacitance change	±20% of initial measured value					
	tan δ	≤ 200 % of initial specified value					
	DC leakage current	≤ initial specified value					
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20°C, capacitor shall meet the following limits.						
	Capacitance change	±10 % of initial measured value					
	tan δ	≤ initial specified value					
	DC leakage current	≤ initial specified value					

■ Marking

Example: 16V 100 μF (Polarized)

W.V. code

Negative polarity marking

Capacitance (μF)

Series identification

Lot number

W.V. code					
V	10	16	25	35	50
Code	A	C	E	V	H

■ Dimensions in mm (not to scale)

() reference size

0.3 max

A±0.2

φD±0.5

L±0.3

H

B±0.2

w

K (I)

(P)

(I)

(mm)

Size code	D	L	A, B	H	I	W	P	K
E	8.0	6.2	8.3	9.5 MAX	3.4	0.65±0.1	2.2	0.35 - 0.20 to +0.15
F	8.0	10.2	8.3	10.0 MAX	3.4	0.90±0.2	3.1	0.70 ±0.2
G	10.0	10.2	10.3	12.0 MAX	3.5	0.90±0.2	4.6	0.70 ±0.2

■ Case size

W.V.(V) Cap.(μF)	10 (1A)	16 (1C)	25 (1E)	35 (1V)	50 (1H)
10					E
22					E
33				E	F
47			E	F	G
100	E	F	F	G	
220	F	G			
330	G				

■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size			Specification		Part No. (RoHS: not compliant)	Reflow	Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple current (100kHz) (+125°C) (mA)	tan δ (120Hz) (+20°C)			Taping (pcs)
10	100	8	6.2	E	62	0.32	EEVTA1A101P	(2)	1000
	220	8	10.2	F	93	0.32	EEVTA1A221P	(2)	500
	330	10	10.2	G	118	0.32	EEVTA1A331P	(2)	500
16	100	8	10.2	F	89	0.24	EEVTA1C101P	(2)	500
	220	10	10.2	G	113	0.24	EEVTA1C221P	(2)	500
25	47	8	6.2	E	56	0.21	EEVTA1E470P	(2)	1000
	100	8	10.2	F	84	0.21	EEVTA1E101P	(2)	500
35	33	8	6.2	E	53	0.18	EEVTA1V330P	(2)	1000
	47	8	10.2	F	79	0.18	EEVTA1V470P	(2)	500
	100	10	10.2	G	101	0.18	EEVTA1V101P	(2)	500
50	10	8	6.2	E	25	0.18	EEVTA1H100P	(2)	1000
	22	8	6.2	E	50	0.18	EEVTA1H220P	(2)	1000
	33	8	10.2	F	74	0.18	EEVTA1H330P	(2)	500
	47	10	10.2	G	94	0.18	EEVTA1H470P	(2)	500

The taping dimensions are explained on p.187 of our Catalog.

Please use it as a reference guide.

Endurance : 125°C 1000h

Reflow profile(Fig-1 to Fig-5) listed on the last page.

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