TXV SERIES

125°C Low ESR, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 125°C 2000 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	10~35V.DC
Capacitance Tolerance	±20%(20°C,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	(20°C,120Hz)
Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 125°C, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage (V)	10	16	25	35
tanδ	0.3	0.2	0.18	0.16

Capacitance Change	Within ±30% of the initial value.
Dissipation Factor	Not more than 300% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	LifeTime (hrs)
φ D=6.3	1000
φ D≧8	2000

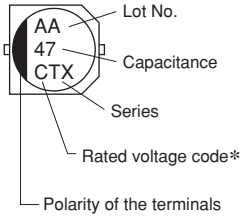
Rated Voltage (V)	10	16	25	35
Z(−40°C)/Z(20°C)	6	4	4	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		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
	220~470μF	0.60	0.85	0.95	1.00

◆MARKING



*Voltage Code

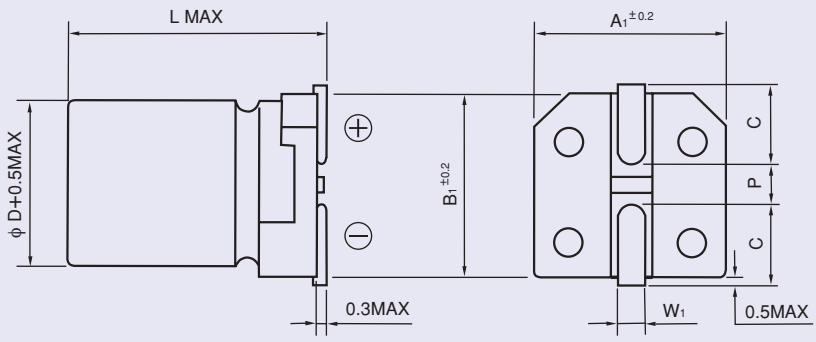
Rated Voltage (V)	10	16	25	35
Rated Voltage code	A	C	E	V

◆PART NUMBER

□□□ Rated Voltage | TXV Series | □□□□□ Rated Capacitance | □ Capacitance Tolerance | □□□ Option | D×L Case Size

◆DIMENSIONS

(mm)



φ D	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

◆STANDARD SIZE

Size φ D×L(mm), Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

WV (V.DC) / Cap(μF)	10 (1A)				16 (1C)				25 (1E)			
	Size	Ripple	ESR		Size	Ripple	ESR		Size	Ripple	ESR	
			20°C	-40°C			20°C	-40°C			20°C	-40°C
33									6.3×6.1	70	1	15
47					6.3×8	140	0.3	5	6.3×8	140	0.3	5
					6.3×6.1	70	1	15				
100	6.3×8	140	0.3	5					6.3×8	110	0.7	11
									8×10.5	300	0.16	2.5
220	6.3×8	110	0.7	11					8×10.5	220	0.3	4.5
									10×10.5	420	0.1	1.5
330									10×10.5	300	0.2	3
470	10×10.5	300	0.2	3								

WV (V.DC) / Cap(μF)	35 (1V)			
	Size	Ripple	ESR	
			20°C	-40°C
22	6.3×6.1	70	1	15
33	6.3×8	140	0.3	5
47	6.3×8	110	0.7	11
	8×10.5	300	0.16	2.5
100	8×10.5	220	0.3	4.5
	10×10.5	420	0.1	1.5
220	10×10.5	300	0.2	3