

TXV SERIES

125°C Low ESR, Lead Free Reflow Soldering

◆FEATURES

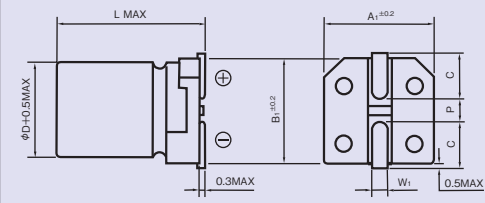
- Load Life : 125°C 1000~2000 hours Low ESR.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics				
Category Temperature Range	-40~+125°C				
Rated Voltage Range	10~35Vdc				
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=Capacitance(μF) V=Rated Voltage(Vdc)				
(tanδ) Dissipation Factor(MAX)	Rated Voltage (Vdc)	10	16	25	35
	tanδ	0.3	0.2	0.18	0.16
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	LifeTime (hrs)
	Dissipation Factor	Not more than 300% of the specified value.		φD=6.3	1000
	Leakage Current	Not more than the specified value.		φD≥8	2000
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)	10	16	25	35
	Z(-40°C)/Z(20°C)	6	4	4	3

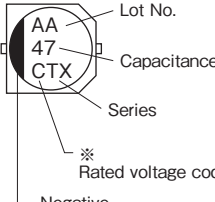
◆DIMENSIONS

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

◆MULTIPLIER FOR RIPPLE CURRENT

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

◆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
10	100	6.3×8	140	0.3	5
	220	6.3×8	110	0.7	11
	470	10×10.5	300	0.2	3
16	47	6.3×6.1	70	1	15
		6.3×8	140	0.3	5

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	140	0.3	5
	100	6.3×8	110	0.7	11
		8×10.5	300	0.16	2.5
	220	8×10.5	220	0.3	4.5
		10×10.5	420	0.1	1.5
	330	10×10.5	300	0.2	3

Vdc	Cap (μF)	Size (φD×L)	Ripple	ESR	
				20°C	-40°C
35	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

◆PART NUMBER

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