TXV SERIES

125℃ Low ESR, Lead Free Reflow Soldering.

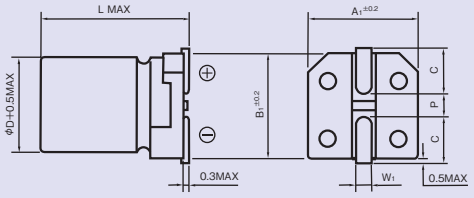
◆FEATURES

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

◆SPECIFICATIONS

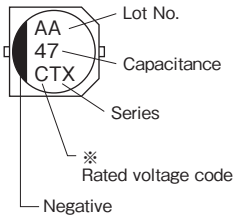
Items	特　　性　Characteristics
Category Temperature Range	−40～+125℃
Rated Voltage Range	10～35V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA)　C=Capacitance(μF)　V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	Rated Voltage (V): 10 / 16 / 25 / 35 tanδ: 0.3 / 0.2 / 0.18 / 0.16　(20℃,120Hz)
Endurance	After applying rated voltage with rated ripple current at conditions stated in the table below at 125℃, the capacitors shall meet the following requirements. 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 φD=6.3: LifeTime 1000 hrs Case Size φD≧8: LifeTime 2000 hrs
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V): 10 / 16 / 25 / 35 Z(−40℃)/Z(20℃): 6 / 4 / 4 / 3　(120Hz)

◆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 (V)	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), Ripple Current (mA r.m.s./125℃, 100kHz), ESR(Ω MAX/100kHz)

V.DC	Cap (μF)	Size (φDxL)	Ripple	ESR 20℃	ESR -40℃
10 (1A)	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 (1C)	47	6.3×6.1	70	1	15
		6.3×8	140	0.3	5

V.DC	Cap (μF)	Size (φDxL)	Ripple	ESR 20℃	ESR -40℃
25 (1E)	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

V.DC	Cap (μF)	Size (φDxL)	Ripple	ESR 20℃	ESR -40℃
35 (1V)	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

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