TRV SERIES

Load Life : 105℃ 5000 ～ 10000 hours, Low Impedance

RoHS compliance

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105℃
Rated Voltage Range	6.3～50Vdc
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(Vdc)
Dissipation Factor(MAX) (tanδ)	(20℃,120Hz) When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with Increase of every 1000 μF.
Endurance	After applying rated voltage for specified time at 105℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (Vdc)	6.3	10	16	25	35	50
φ6.3～10	0.32	0.28	0.26	0.16	0.14	0.14
φ12.5～18	0.30	0.26	0.22	0.16	0.14	0.12

Endurance

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)
φD=6.3	L=6.1	5000
	L=8	6000
φD=8, 10		8000
φD≧12.5		10000

Low Temperature Stability Impedance Ratio(MAX)

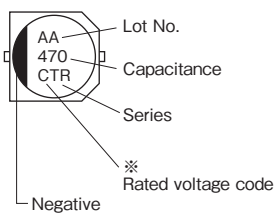
Rated Voltage (Vdc)	6.3	10	16	25	35	50
Z(−40℃)/Z(20℃)	4	4	4	4	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

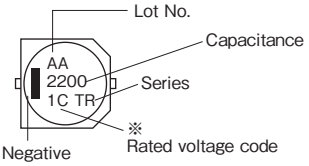
Frequency(Hz)		120	1k	10k	100k≦
Coefficient	10～33μF	0.45	0.75	0.90	1.00
	47～100μF	0.50	0.80	0.95	1.00
	220～8200μF	0.60	0.85	0.95	1.00

◆MARKING

〈φ6.3～φ10〉



〈φ12.5～φ18〉



※Voltage code

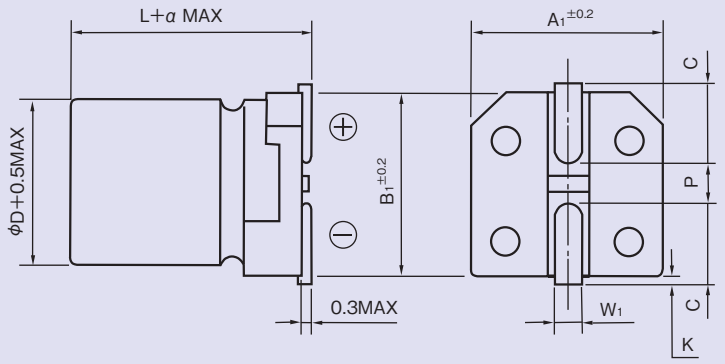
Rated Voltage (Vdc)		6.3	10	16	25	35	50
Voltage code	φD≦10	j	A	C	E	V	H
	φD≧12.5	0J	1A	1C	1E	1V	1H

◆PART NUMBER

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

◆DIMENSIONS

(mm)



ϕD	L	A1	B1	C	W1	P	K	α
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5Max	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5Max	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5Max	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5Max	0
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

◆STANDARD SIZE

Size ϕDXL(mm), Rated Ripple Current(mA r.m.s./105℃,100kHz), Impedance(Ω MAX/20℃, 100kHz)

Vdc	Cap (μF)	Size (ϕDXL)	Ripple	Impedance
6.3	470	8×10.5	600	0.15
	820	10×10.5	850	0.12
	2200	12.5×13.5	950	0.092
	2700	12.5×16	1200	0.074
	3900	16×16.5	1450	0.066
	5600	18×16.5	1550	0.064
	6800	16×21.5	2000	0.041
	8200	18×21.5	2150	0.039
10	330	8×10.5	600	0.15
	680	10×10.5	850	0.12
	1800	12.5×13.5	950	0.092
	2200	12.5×16	1200	0.074
	3300	16×16.5	1450	0.066
	4700	18×16.5	1550	0.064
	5600	16×21.5	2000	0.041
	6800	18×21.5	2150	0.039
16	330	8×10.5	600	0.15
	470	10×10.5	850	0.12
	1500	12.5×13.5	950	0.092
	1800	12.5×16	1200	0.074
	2200	16×16.5	1450	0.066
	3300	18×16.5	1550	0.064
	4700	16×21.5	2000	0.041
	5600	18×21.5	2150	0.039

Vdc	Cap (μF)	Size (ϕDXL)	Ripple	Impedance
25	100	6.3×8	230	0.7
	220	8×10.5	600	0.15
	330	10×10.5	850	0.12
	1000	12.5×13.5	950	0.092
	1200	12.5×16	1200	0.074
	1500	16×16.5	1450	0.066
	2200	18×16.5	1550	0.064
	2700	16×21.5	2000	0.041
	3300	18×21.5	2150	0.039
35	10	6.3×6.1	140	1
	22	6.3×6.1	140	1
	33	6.3×6.1	140	1
	47	6.3×8	230	0.7
	100	8×10.5	600	0.15
	220	10×10.5	850	0.12
	470	12.5×13.5	950	0.092
	680	12.5×16	1200	0.074
	1000	16×16.5	1450	0.066
	1500	18×16.5	1550	0.064
	2200	16×21.5	2000	0.041
	2700	18×21.5	2150	0.039
50	10	6.3×6.1	140	1
	33	6.3×8	230	0.7
	47	8×10.5	350	0.36
	100	10×10.5	670	0.25
	330	12.5×13.5	850	0.18
	390	12.5×16	950	0.15
	470	16×16.5	1200	0.12
	820	18×16.5	1300	0.12
	1000	16×21.5	1600	0.08
	1500	18×21.5	1650	0.072