

TXV SERIES

Load Life : 125°C 1000~2000 hours Low ESR

•AEC-Q200.

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 $3\mu A$ whichever is greater. (After 2 minutes application of rated voltage) I =Leakage Current(μA) C =Capacitance(μF) V =Rated Voltage(Vdc)				
Dissipation Factor(MAX) (tan δ)	Rated Voltage (Vdc)	10	16	25	35
	tan δ	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.		$\phi D=6.3$	1000
	Leakage Current	Not more than the specified value.		$\phi D \geq 8$	2000
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)	10	16	25	35
	$Z(-40^\circ C)/Z(20^\circ C)$	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

※ Rated voltage code

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	120	1k	10k	100k≤
22~33 μF	0.45	0.75	0.90	1.00
47~100 μF	0.50	0.80	0.95	1.00
220~470 μF	0.60	0.85	0.95	1.00

◆STANDARD SIZE Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

Vdc	Cap (μF)	Size ($\phi D \times L$)	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 ($\phi D \times L$)	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 ($\phi D \times L$)	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