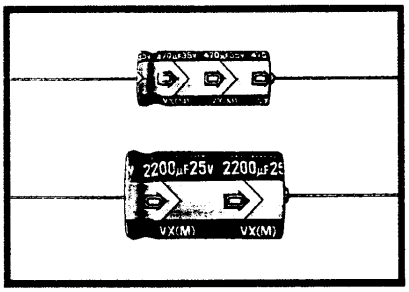
VX Standard, For General Purposes - Axial Lead Type (02 type) series

Anti-Solvent Feature (Through 100V only)

- Axial lead type of standard series for general purposes.



■Specifications

Item	Performance Characteristics
Operating Temperature Range	−40～+85℃ (6.3～250V), −25～+85℃ (315～450V)
Voltage Range	6.3～450V
Capacitance Range	0.47～10000 μF
Capacitance Tolerance	±20% at 120Hz, 20℃
Leakage Current	Rated voltage (V): 6.3～100 — Leakage current: After 1 minute's application of rated voltage, not more than 0.03CV or 4 (μA), whichever is greater. After 2 minutes' application of rated voltage, not more than 0.01CV or 3 (μA), whichever is greater. / 160～450 — In case of CV≦1000: After 1 minute's application of rated voltage, not more than 0.1CV+40 (μA). In case of CV>1000: After 1 minute's application of rated voltage, not more than 0.04CV+100 (μA).
tan δ	For capacitance of more than 1000 μF, add 0.02 for every increase of 1000 μF. Measurement frequency : 120Hz, Temperature : 20℃

Rated voltage (V)	6.3	10	16	25	35	50	63～100	160～315	350～450
tan δ (MAX.)	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

Stability at Low Temperature — Measurement frequency : 120Hz

Rated voltage (V)		6.3	10	16	25	35～100	160～250	315・350	400・450
Impedance ratio ZT/Z20 (MAX.)	Z−25℃/Z+20℃	4	3	2	2	2	4	6	15
	Z−40℃/Z+20℃	10	8	6	4	3	12	—	—

Load Life — After 2000 hours' application of rated voltage at 85℃, capacitors meet the characteristics requirements listed at right.

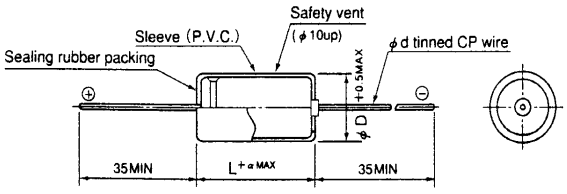
Capacitance change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage current	Initial specified value or less

Shelf Life — After leaving capacitors under no load at 85℃ for 1000 hours, they meet the requirements at right.

Capacitance change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage current	Initial specified value or less

Marking	Printed with white color letter on purple blue sleeve.
Applicable Standards	JIS C 5141 and JIS C 5102.

■Axial Lead Type



α	
	(φD<10) 1
	(φD≧10) 2

φD	5～13	16～18
φd	0.6	0.8

Type numbering system (Example : 10V 330 μF)

1	2	3	4	5	6	7	8	9	10	11
T	V	X	1	A	3	3	1	M	A	A

Configuration

Capacitance tolerance (±20%)	φD	Code
Capacitance (330 μF)	5～8	AA
Rated voltage (10V)	10～18	CA
Series name		
Type		

Please refer to page 19 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

● Dimension table in next page.

VX (02 type) series

■Dimensions

DXL (mm)

Cap.(μF) \ V	Code	6.3		10		16		25		35		50		63		100	
		0J		1A		1C		1E		1V		1H		1J		2A	
0.47	R47											5X12	5			5X12	10
1	010											5X12	10			5X12	18
2.2	2R2											5X12	23			5X12	28
3.3	3R3											5X12	28			5X12	34
4.7	4R7											5X12	34			5X12	40
10	100											5X12	50	5X12	55	6.3X12	60
22	220									5X12	70	6.3X12	85	6.3X12	90	8X16	120
33	330							5X12	80	6.3X12	90	6.3X16	110	6.3X16	120	8X16	150
47	470					5X12	85	6.3X12	100	6.3X16	120	6.3X16	130	8X16	160	8X20	190
100	101	5X12	110	6.3X12	130	6.3X16	160	6.3X16	170	8X16	210	8X16	220	8X20	260	10X26	340
220	221	6.3X16	200	6.3X16	210	8X16	260	8X16	280	8X20	340	10X21	410	10X26	480	13X26	560
330	331	6.3X16	250	8X16	300	8X16	320	8X20	380	10X21	460	10X26	560	13X26	650	13X31.5	750
470	471	8X16	330	8X16	350	8X20	430	10X26	510	10X26	610	13X26	730	13X31.5	840	16X31.5	970
1000	102	10X21	600	10X21	640	10X26	770	13X26	900	13X31.5	1060	16X31.5	1260	16X31.5	1330		
2200	222	13X26	1020	13X26	1090	13X31.5	1180	16X31.5	1480	16X31.5	1580	18X41	1920				
3300	332	13X26	1200	13X31.5	1390	16X31.5	1620	16X41.5	1710	16X41.5	2050						
4700	472	16X31.5	1500	16X31.5	1730	16X41.5	1840	18X41	2170								
6800	682	16X31.5	1840	16X41.5	1930	18X41	2310										
10000	103	16X41.5	2260	18X41	2350												

Cap.(μF) \ V	Code	160		200		250		315		350		400		450	
		2C		2D		2E		2F		2V		2G		2W	
1	010	6.3X12	13	6.3X12	13	6.3X16	14	6.3X16	14	6.3X16	12	8X16	14	8X16	14
2.2	2R2	6.3X16	23	6.3X16	23	8X16	27	8X16	27	8X16	24	8X20	28	10X21	31
3.3	3R3	8X16	33	8X16	33	8X16	33	8X20	36	8X20	32	10X21	38	10X21	38
4.7	4R7	8X16	39	8X16	39	8X20	45	8X20	45	10X21	46	10X21	46	10X26	50
10	100	8X20	60	10X21	70	10X21	70	10X26	80	13X26	85	13X26	85	13X26	85
22	220	10X26	120	13X26	140	13X26	140	13X31.5	150	13X31.5	140	16X31.5	150	16X31.5	150
33	330	13X26	170	13X26	170	13X31.5	190	16X31.5	210	16X31.5	190	16X41.5	210	18X41	230
47	470	13X31.5	230	13X31.5	230	16X31.5	260	16X31.5	260	16X41.5	260	18X41	290		Allow-able ripple
100	101	16X41.5	430	16X41.5	430	16X41.5	430							Case size	

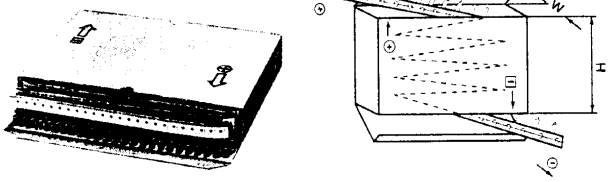
Allowable Ripple (mA rms) at 85℃ 120Hz

• Frequency coefficient of allowable ripple current

V	Cap.(μF) \ Frequency (Hz)	120	300	1k	10k～
6.3～100	～47	1.00	1.35	1.57	2.00
	100～470	1.00	1.23	1.34	1.50
	1000～10000	1.00	1.10	1.13	1.15
160～450	1～100	1.00	1.25	1.40	1.60

Packaging

●Ammo-pack (Flat box type)



(mm)

L	H	W	Case Size	Q'ty/Box
340	150	50	3X5	2000
340	200	50	4X5、4X7	2000
340	250	50	5X5、5X7	2000
			8X5、8X7	1000
340	300	50	6.3X5、6.3X7	2000
340	260	54	4X11、5X9、5X11	2000
			8X9、8X11.5、8X15	1000
340	200	54	10X9,10X12.5,10X15,10X16	500
340	300	54	6.3X9、6.3X11、6.3X15	2000
340	260	62	8X20	1000
340	200	62	10X20	500
340	200	65	10X25	500
330	290	65	12.5X12.5、12.5X15、12.5X20	500
			12.5X25	
			18X15、18X20、18X25	250
320	230	65	16X15、16X20、16X25	250

●Axial lead type (Applicable standard JIS C0805)
The following code shall be put at 12th~14th digit of the corresponding type number of capacitors. (mm)

Taping Specifications		Case dia (φ)	Taping code	Q'ty/Reel (pcs.)
Dim. W (Tape distance)	Dim. P (Component Pitch)			
52.4	10	5	1LS	1600
		6.3		1300
		8		1000
63.5	10	5	1LV	1600
		6.3		1300
		8		1000
73.0	10	5	1LY	1600
		6.3		1300
		8		1000
52.4	15	10	1LT	500
		13 (except 31.5L)		350
63.5	15	10	1LW	500
		13		350
73.0	15	10	1LZ	500
		13		350

Please contact us for complete information on the package dimensions for tapes axial lead capacitors.