

# NICHICON Aluminum Electrolytic Capacitors **nichicon**

## nichicon TVX 85°C AXIAL SERIES

### Specifications:

- Operating temperature range: -40°C to +85°C (6.3 to 250V), -25°C to +85°C (315 to 450V)
- Voltage range: 6.3-450V
- Capacitance range: 0.47 to 10000µF
- Capacitance tolerance: ±20% at 120Hz/20°C



RoHS Compliant

### Endurance:

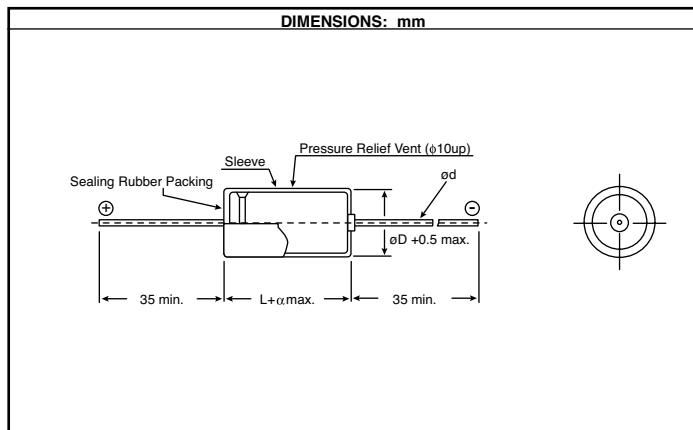
After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristics listed at right.

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

### Application Note:

- A higher voltage capacitor may be used in a lower voltage application

Rated Voltage (V)	6.3 - 100	160 - 450
Leakage Current	After a 1 minute application of rated voltage, not more than 0.03CV or 4 (µA), whichever is greater.	In case of CV ≤ 1000 After a 1 minute application of rated voltage, not more than 0.1CV+40 (µA)
	After a 2 minute application of rated voltage, not more than 0.01CV or 3 (µA), whichever is greater.	In case of CV >1000 After a 1 minute application of rated voltage, not more than 0.04CV+100 (µA)



Aluminum Caps, Leaded Nichicon

For quantities of 2500 and up, call for quote.

MOUSER STOCK NO.		Value (µF)	Case Size D x L (mm)	Price Each			
Mfr.	Mfr. Part No.			1	100	500	1000
<b>6.3 Volt</b>							
647	TVX0J101MAD	100	5 x 12	.38	.35	.32	.248
647	TVX0J221MAD	220	6.3 x 16	.39	.35	.335	.262
647	TVX0J331MAD	330	6.3 x 16	.44	.41	.378	.304
647	TVX0J102MCD	1000	10 x 21	.73	.66	.621	.476
647	TVX0J332MCD	3300	13 x 26	1.41	1.28	1.16	.921
<b>10 Volt</b>							
647	TVX1A101MAD	100	6.3 x 12	.50	.45	.393	.305
647	TVX1A221MAD	220	6.3 x 16	.44	.41	.378	.304
647	TVX1A331MAD	330	8 x 16	.59	.53	.465	.363
647	TVX1A471MAD	470	8 x 16	.52	.48	.438	.336
647	TVX1A102MCD	1000	10 x 21	.73	.66	.621	.476
647	TVX1A222MCD	2200	13 x 26	1.38	1.25	1.12	.876
<b>16 Volt</b>							
647	TVX1C220MAD	22	5 x 12	.31	.28	.263	.204
647	TVX1C330MAD	33	5 x 12	.32	.29	.277	.204
647	TVX1C470MAD	47	5 x 12	.38	.35	.32	.248
647	TVX1C101MAD	100	6.3 x 16	.39	.35	.335	.262
647	TVX1C221MAD	220	8 x 16	.44	.41	.378	.304
647	TVX1C331MAD	330	8 x 16	.59	.53	.509	.392
647	TVX1C471MAD	470	8 x 20	.59	.53	.509	.392
647	TVX1C102MCD	1000	10 x 26	1.05	.94	.875	.671
647	TVX1C222MCD	2200	13 x 31.5	1.58	1.42	1.28	1.02
647	TVX1C332MCD	3300	16 x 31.5	2.48	2.27	2.03	1.58
647	TVX1C472MCD	4700	16 x 41.5	3.39	3.08	2.78	2.15
647	TVX1C103MDD	10000	22 x 40	5.24	4.77	4.29	3.33
<b>25 Volt</b>							
647	TVX1E100MAD	10	5 x 12	.31	.28	.263	.204
647	TVX1E220MAD	22	5 x 12	.32	.29	.277	.204
647	TVX1E330MAD	33	5 x 12	.50	.45	.393	.305
647	TVX1E470MAD	47	6.3 x 12	.38	.35	.32	.248
647	TVX1E101MAD	100	6.3 x 16	.44	.41	.378	.304
647	TVX1E221MAD	220	8 x 16	.52	.48	.438	.336
647	TVX1E331MAD	330	8 x 20	.80	.73	.63	.484
647	TVX1E471MCD	470	10 x 26	.87	.80	.728	.568
647	TVX1E102MCD	1000	13 x 26	1.38	1.25	1.12	.876
647	TVX1E222MCD	2200	16 x 31.5	2.70	2.44	2.19	1.70
647	TVX1E332MCD	3300	16 x 41.5	3.42	3.11	2.80	2.17
647	TVX1E472MCD	4700	18 x 41	3.98	3.61	3.25	2.51
<b>35 Volt</b>							
647	TVX1V100MAD	10	5 x 12	.31	.28	.263	.204
647	TVX1V220MAD	22	5 x 12	.38	.32	.283	.265
647	TVX1V330MAD	33	6.3 x 12	.50	.45	.393	.305
647	TVX1V470MAD	47	6.3 x 16	.39	.35	.335	.262
647	TVX1V101MAD	100	8 x 16	.44	.41	.378	.304
647	TVX1V221MAD	220	8 x 20	.62	.56	.513	.395
647	TVX1V331MCD	330	10 x 21	.73	.66	.621	.476
647	TVX1V471MCD	470	10 x 26	1.05	.94	.875	.671
647	TVX1V102MCD	1000	13 x 31.5	1.58	1.42	1.28	1.02
647	TVX1V222MCD	2200	16 x 31.5	3.18	2.88	2.59	2.01
647	TVX1V332MCD	3300	16 x 41.5	3.93	3.56	3.20	2.50
<b>50 Volt</b>							
647	TVX1H010MAD	1.0	5 x 12	.31	.249	.222	.211
647	TVX1H2R2MAD	2.2	5 x 12	.31	.249	.222	.211
647	TVX1H3R3MAD	3.3	5 x 12	.31	.249	.222	.211
647	TVX1H4R7MAD	4.7	5 x 12	.31	.249	.222	.211

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MOUSER STOCK NO.		Value (µF)	Case Size D x L (mm)	Price Each			
Mfr.	Mfr. Part No.			1	100	500	1000
<b>50 Volt (cont.)</b>							
647	TVX1H100MAD	10	5 x 12	.39	.305	.275	.261
647	TVX1H200MAD	22	6.3 x 12	.39	.305	.275	.261
647	TVX1H330MAD	33	6.3 x 16	.41	.305	.281	.27
647	TVX1H470MAD	47	6.3 x 16	.46	.363	.327	.314
647	TVX1H101MAD	100	8 x 16	.63	.466	.427	.41
647	TVX1H21MCD	220	10 x 21	.77	.578	.524	.502
647	TVX1H331MCD	330	10 x 26	1.08	.802	.74	.709
647	TVX1H471MCD	470	13 x 26	1.41	1.05	.965	.922
647	TVX1H102MCD	1000	16 x 31.5	2.61	1.92	1.77	1.69
647	TVX1H222MCD	2200	18 x 41	4.80	3.54	3.26	3.11
647	TVX1H332MDD	3300	22 x 40	5.95	4.37	4.02	3.84
647	TVX1H472MDD	4700	22 x 52	7.61	5.60	5.14	4.92
<b>63 Volt</b>							
647	TVX1J100MAD	10	5 x 12	.38	.35	.32	.248
647	TVX1J220MAD	22	6.3 x 12	.51	.45	.408	.305
647	TVX1J330MAD	33	6.3 x 16	.58	.55	.475	.36
647	TVX1J470MAD	47	8 x 16	.46	.41	.377	.295
647	TVX1J101MAD	100	8 x 20	.63	.56	.521	.406
647	TVX1J221MCD	220	10 x 26	1.05	.96	.867	.671
647	TVX1J331MCD	330	13 x 26	1.35	1.25	1.13	.884
647	TVX1J471MCD	470	13 x 31.5	1.80	1.63	1.45	1.14
647	TVX1J102MCD	1000	16 x 31.5	3.18	2.87	2.59	2.02
<b>100 Volt</b>							
647	TVX2A010MAD	1.0	5 x 12	.31	.28	.263	.204
647	TVX2A2R2MAD	2.2	5 x 12	.32	.29	.277	.204
647	TVX2A4R7MAD	4.7	5 x 12	.50	.45	.393	.305
647	TVX2A100MAD	10	6.3 x 12	.50	.45	.393	.305
647	TVX2A220MAD	22	8 x 16	.44	.41	.378	.304
647	TVX2A330MAD	33	8 x 16	.79	.72	.612	.466
647	TVX2A470MAD	47	8 x 20	.62	.56	.513	.395
647	TVX2A101MCD	100	10 x 26	1.05	.94	.875	.671
647	TVX2A221MCD	220	13 x 26	1.58	1.42	1.28	1.02
647	TVX2A471MCD	470	16 x 31.5	3.18	2.88	2.59	2.01
<b>160 Volt</b>							
647	TVX2C010MAD	1.0	6.3 x 12	.55	.49	.426	.324
647	TVX2C2R2MAD	2.2	6.3 x 16	.46	.42	.39	.303
647	TVX2C220MCD	22	10 x 26	1.05	.94	.875	.671
647	TVX2C470MCD	47	13 x 31.5	1.47	1.34	1.21	.944
647	TVX2C101MCD	100	16 x 41.5	2.39	2.17	1.95	1.52
<b>200 Volt</b>							
647	TVX2D2R2MAD	2.2	6.3 x 16	.62	.55	.477	.361
647	TVX2D100MCD	10	10 x 21	.89	.80	.744	.568
<b>250 Volt</b>							
647	TVX2E3R3MAD	3.3	8 x 16	.57	.52	.48	.377
647	TVX2E4R7MAD	4.7	8 x 20	.63	.57	.525	.407
647	TVX2E100MCD	10	10 x 21	.89	.80	.744	.568
647	TVX2E330MCD	33	13 x 31.5	1.63	1.49	1.33	1.04
647	TVX2E470MCD	47	16 x 31.5	2.39	2.17	1.95	1.52
647	TVX2E101MCD	100	16 x 41.5	3.34	3.04	2.72	2.11
<b>350 Volt</b>							
647	TVX2V100MCD	10	13 x 26	1.25	1.14	1.04	.814
647	TVX2V470MCD	47	16 x 41.5	3.01	2.73	2.44	1.89
<b>450 Volt</b>							
647	TVX2W100MCD	10	13 x 26	1.67	1.53	1.37	1.08
647	TVX2W330MCD	33	18 x 41	4.43	4.03	3.62	2.81