

# 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

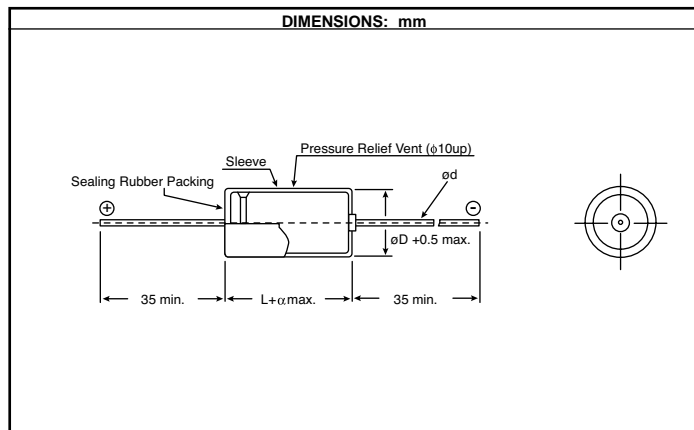
### Application Note:

- 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.  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 0.1CV+40 (µA)  In case of CV >1000 After a 1 minute application of rated voltage, not more than 0.04CV+100 (µA)

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				
	647—TVX0J221MAD	220	6.3 x 16				
	647—TVX0J331MAD	330	6.3 x 16				
	647—TVX0J102MCD	1000	10 x 21				
	647—TVX0J332MCD	3300	13 x 26				
<b>10 Volt</b>							
	647—TVX1A101MAD	100	6.3 x 12				
	647—TVX1A221MAD	220	6.3 x 16				
	647—TVX1A331MAD	330	8 x 16				
	647—TVX1A471MAD	470	8 x 16				
	647—TVX1A102MCD	1000	10 x 21				
	647—TVX1A222MCD	2200	13 x 26				
<b>16 Volt</b>							
	647—TVX1C220MAD	22	5 x 12				
	647—TVX1C330MAD	33	5 x 12				
	647—TVX1C470MAD	47	5 x 12				
	647—TVX1C101MAD	100	6.3 x 16				
	647—TVX1C221MAD	220	8 x 16				
	647—TVX1C331MAD	330	8 x 16				
	647—TVX1C471MAD	470	8 x 20				
	647—TVX1C102MCD	1000	10 x 26				
	647—TVX1C222MCD	2200	13 x 31.5				
	647—TVX1C332MCD	3300	16 x 31.5				
	647—TVX1C472MCD	4700	16 x 41.5				
	647—TVX1C103MDD	10000	22 x 40				
<b>25 Volt</b>							
	647—TVX1E100MAD	10	5 x 12				
	647—TVX1E220MAD	22	5 x 12				
	647—TVX1E330MAD	33	5 x 12				
	647—TVX1E470MAD	47	6.3 x 12				
	647—TVX1E101MAD	100	6.3 x 16				
	647—TVX1E221MAD	220	8 x 16				
	647—TVX1E331MAD	330	8 x 20				
	647—TVX1E471MCD	470	10 x 26				
	647—TVX1E102MCD	1000	13 x 26				
	647—TVX1E222MCD	2200	16 x 31.5				
	647—TVX1E332MCD	3300	16 x 41.5				
	647—TVX1E472MCD	4700	18 x 41				
<b>35 Volt</b>							
	647—TVX1V100MAD	10	5 x 12				
	647—TVX1V220MAD	22	5 x 12				
	647—TVX1V330MAD	33	6.3 x 12				
	647—TVX1V470MAD	47	6.3 x 16				
	647—TVX1V101MAD	100	8 x 16				
	647—TVX1V221MAD	220	8 x 20				
	647—TVX1V331MCD	330	10 x 21				
	647—TVX1V471MCD	470	10 x 26				
	647—TVX1V102MCD	1000	13 x 31.5				
	647—TVX1V222MCD	2200	16 x 31.5				
	647—TVX1V332MCD	3300	16 x 41.5				
<b>50 Volt</b>							
	647—TVX1H010MAD	1.0	5 x 12				
	647—TVX1H2R2MAD	2.2	5 x 12				
	647—TVX1H3R3MAD	3.3	5 x 12				
	647—TVX1H4R7MAD	4.7	5 x 12				



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>50 Volt (cont.)</b>							
	647—TVX1H100MAD	10	5 x 12				
	647—TVX1H220MAD	22	6.3 x 12				
	647—TVX1H330MAD	33	6.3 x 16				
	647—TVX1H470MAD	47	6.3 x 16				
	647—TVX1H101MAD	100	8 x 16				
	647—TVX1H221MCD	220	10 x 21				
	647—TVX1H331MCD	330	10 x 26				
	647—TVX1H471MCD	470	13 x 26				
	647—TVX1H102MCD	1000	16 x 31.5				
	647—TVX1H222MCD	2200	18 x 41				
	647—TVX1H332MDD	3300	22 x 40				
	647—TVX1H472MDD	4700	22 x 52				
<b>63 Volt</b>							
	647—TVX1J100MAD	10	5 x 12				
	647—TVX1J220MAD	22	6.3 x 12				
	647—TVX1J330MAD	33	6.3 x 16				
	647—TVX1J470MAD	47	8 x 16				
	647—TVX1J101MAD	100	8 x 20				
	647—TVX1J221MCD	220	10 x 26				
	647—TVX1J331MCD	330	13 x 26				
	647—TVX1J471MCD	470	13 x 31.5				
	647—TVX1J102MCD	1000	16 x 31.5				
<b>100 Volt</b>							
	647—TVX2A010MAD	1.0	5 x 12				
	647—TVX2A2R2MAD	2.2	5 x 12				
	647—TVX2A4R7MAD	4.7	5 x 12				
	647—TVX2A100MAD	10	6.3 x 12				
	647—TVX2A220MAD	22	8 x 16				
	647—TVX2A330MAD	33	8 x 16				
	647—TVX2A470MAD	47	8 x 20				
	647—TVX2A101MCD	100	10 26				
	647—TVX2A221MCD	220	13 x 26				
	647—TVX2A471MCD	470	16 x 31.5				
<b>160 Volt</b>							
	647—TVX2C010MAD	1.0	6.3 x 12				
	647—TVX2C2R2MAD	2.2	6.3 x 16				
	647—TVX2C220MCD	22	10 x 26				
	647—TVX2C470MCD	47	13 x 31.5				
	647—TVX2C101MCD	100	16 x 41.5				
<b>200 Volt</b>							
	647—TVX2D2R2MAD	2.2	6.3 x 16				
	647—TVX2D100MCD	10	10 x 21				
<b>250 Volt</b>							
	647—TVX2E3R3MAD	3.3	8 x 16				
	647—TVX2E4R7MAD	4.7	8 x 20				
	647—TVX2E100MCD	10	10 x 21				
	647—TVX2E330MCD	33	13 x 31.5				
	647—TVX2E470MCD	47	16 x 31.5				
	647—TVX2E101MCD	100	16 x 41.5				
<b>350 Volt</b>							
	647—TVX2V100MCD	10	13 x 26				
	647—TVX2V470MCD	47	16 x 41.5				
<b>450 Volt</b>							
	647—TVX2W100MCD	10	13 x 26				
	647—TVX2W330MCD	33	18 x 41				

Aluminum Caps, Leaded Nichicon