

Screw Terminal Aluminum Electrolytic Capacitors NSTLW Series

FEATURES

- LONG LIFE AT 105°C (5,000 HOURS)
- HIGH RIPPLE CURRENT
- HIGH VOLTAGE (UP TO 450VDC)

**RoHS
Compliant**

includes all homogeneous materials

*See Part Number System for Details

SPECIFICATIONS

Operating Temperature Range		-25 ~ +105°C		
Rated Voltage Range		350 ~ 450Vdc		
Rated Capacitance Range		1,000 ~ 10,000μF		
Capacitance Tolerance		±20% (M)		
Max. Leakage Current (μA) After 5 minutes (20°C)		$3 \times \sqrt{C(\mu F)V}$		
Max. Tan δ at 120Hz/20°C	W.V. (Vdc)	350	400	450
	0.20	≤ 2700μF	≤ 2200μF	≤ 1800μF
	0.25	~ 10000μF	~ 8200μF	~ 6800μF
Surge Voltage	W.V. (Vdc)	350	400	450
	S.V. (Vdc)	400	450	500
Low Temperature Impedance Ratio at 120Hz	W.V. (Vdc)	350	400	450
	Z-25°C/Z+25°C	8	8	8
Load Life Test 5,000 hours at +105°C	Capacitance Change	Within ±20% of initial measured value		
	Tan δ	Less than 200% of specified maximum value		
	Leakage Current	Less than specified maximum value		
Shelf Life Test 96 hours at +105°C (no load)	Capacitance Change	Within ±10% of initial measured value		
	Tan δ	Less than 120% of specified maximum value		
	Leakage Current	Less than specified maximum value		
Surge Voltage Test 1000 Cycles of 30 seconds duration every 6 minutes at 15°~35°C	Capacitance Change	Within ±15% of initial measured value		
	Tan δ	Less than specified maximum value		
	Leakage Current	Less than specified maximum value		

CASE AND CLAMP DIMENSIONS (mm)

	D	P	W1	W2	W3	W4	W5	W6
2 Point Clamp	51	21.8	34.0	40.0	3.5	6.0	12	6.0
	64	28.2	40.0	45.0	4.5	7.0	12	6.5
	77	31.4	47.0	53.0	4.5	6.0	12	5.5
	90	31.4	54.0	60.0	4.5	6.0	14	5.5
3 Point Clamp	51	21.8	32.5	37.5	4.5	6.0	12	6.0
	64	28.2	38.0	43.0	4.5	8.0	14	6.5
	77	31.4	43.5	49.0	4.5	7.0	14	5.5
	90	31.4	50.8	56.0	4.5	8.0	16	5.5

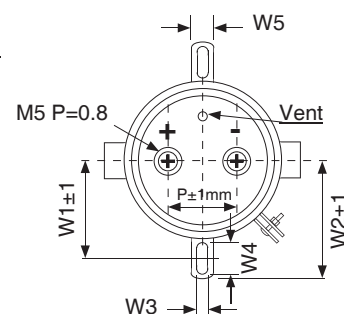
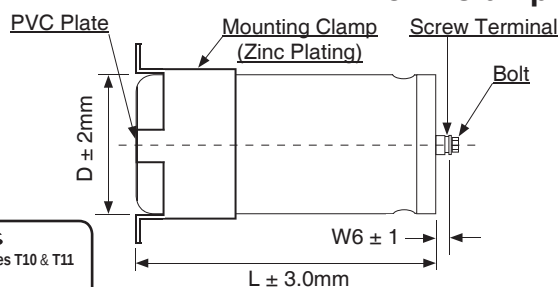
See Standard Values Table for "L" dimensions

PART NUMBER SYSTEM

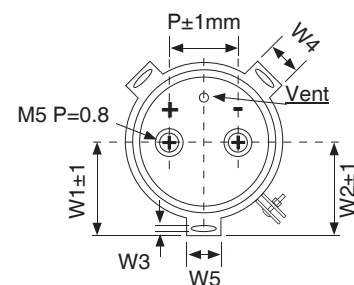
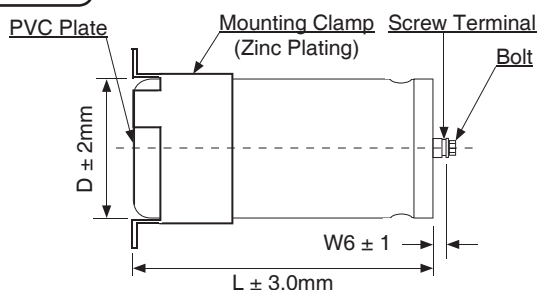
NSTLW 103 M 350V 90X141 P2 F

Series Tolerance Code Voltage Rating Capacitance Code Case Size (mm) P2 or P3 (2 point or 3 point clamp) or blank for no hardware RoHS compliant

2 Point Clamp



3 Point Clamp



PRECAUTIONS

Please review the notes on correct use, safety and precautions found on pages T10 & T11 of NIC's Electrolytic Capacitor catalog.

Also found at www.niccomp.com/precautions

If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com



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STANDARD VALUES, CASE SIZES AND SPECIFICATIONS

Voltage (VDC)	Cap. (μF)	Tan δ Max.	Max. Leakage Current (μA)	Max. Ripple Current (Arms @ 105°C)		Case Size		
				120Hz	5KHz ~	D	L	P
350	1800	0.20	2381	5.51	7.71	51	98	21.8
	2200	0.20	2632	6.20	8.68	51	118	21.8
	2700	0.20	2916	6.95	9.73	51	138	21.8
	3300	0.20	3224	8.41	11.77	51	148	21.8
	3900	0.25	3504	9.18	12.85	64	119	28.2
	4700	0.25	3847	10.20	14.28	64	139	28.2
	4700	0.25	3847	11.40	15.96	77	101	31.4
	5600	0.25	4200	12.60	17.64	77	121	31.4
	6800	0.25	4628	14.10	19.74	77	141	31.4
	8200	0.25	5000	18.30	25.62	77	151	31.4
	10000	0.25	5000	20.40	28.56	90	141	31.4
400	1200	0.20	2078	4.69	6.56	51	98	21.8
	1500	0.20	2323	5.33	7.46	51	118	21.8
	1800	0.20	2545	5.80	8.12	51	118	21.8
	2200	0.20	2814	6.49	9.08	51	138	21.8
	2700	0.20	3117	8.00	11.20	51	148	21.8
	3300	0.20	3446	8.90	12.46	64	139	28.2
	3900	0.25	3746	9.69	13.56	64	149	28.2
	4700	0.25	4113	12.00	16.80	77	121	31.4
	5600	0.25	4489	13.20	18.48	77	141	31.4
	6800	0.25	4947	18.00	25.20	90	141	31.4
	8200	0.25	5000	19.50	27.30	90	151	31.4
450	1000	0.20	2012	4.26	5.96	51	98	21.8
	1200	0.20	2204	4.75	6.65	51	98	21.8
	1500	0.20	2464	5.27	7.37	51	118	21.8
	1800	0.20	2700	5.86	8.20	51	138	21.8
	1800	0.25	2700	6.36	8.90	64	99	28.2
	2200	0.25	2984	7.16	10.02	64	119	28.2
	2700	0.25	3306	8.02	11.22	64	139	28.2
	3300	0.25	3655	8.88	12.43	64	149	28.2
	3900	0.25	3974	10.10	14.14	77	121	31.4
	4700	0.25	4362	12.10	16.94	77	141	31.4
	4700	0.25	4362	14.60	20.44	90	121	31.4
	5600	0.25	4762	16.20	22.68	90	141	31.4
	6800	0.25	5000	17.80	24.92	90	141	31.4