Screw Terminal Aluminum Electrolytic Capacitors NSTL Series

FEATURES

- LONG LIFE AT 85°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 ~ +85°C		
Rated Voltage Range		350 ~ 450Vdc		
Rated Capacitance Range		1,200 ~ 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	≤ 3,300µF	≤ 2700µF	≤ 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 +85°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 +85°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

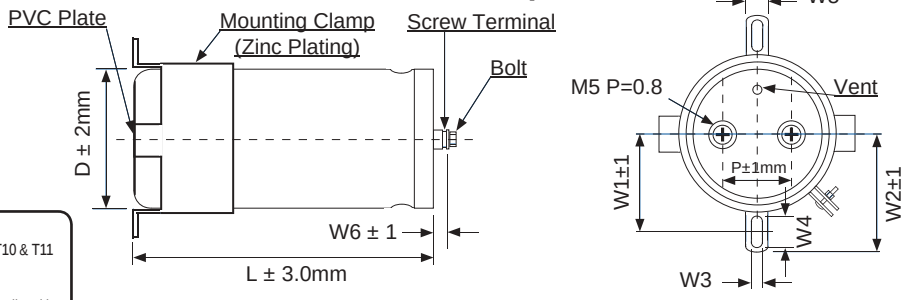
See Standard Values Table for "L" dimensions

PART NUMBER SYSTEM

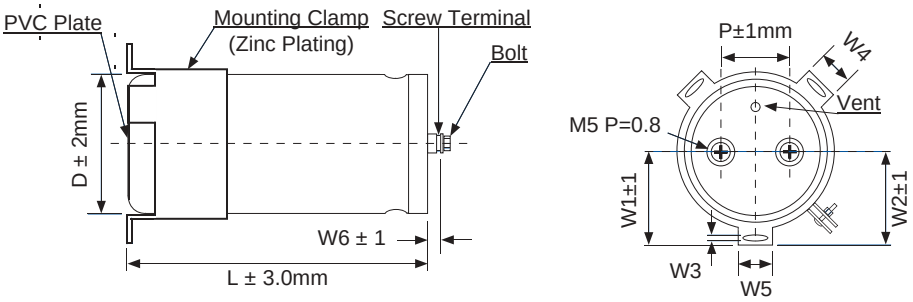
NSTL 103 M 350V 90X141 P2 F

- F — RoHS compliant
- P2 — P2 or P3 (2 point or 3 point clamp) or blank for no hardware
- 90X141 — Case Size (mm)
- 350V — Voltage Rating
- M — Tolerance Code
- 103 — Capacitance Code
- NSTL — Series

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@85°C)		Case Size		
				120Hz	5KHz ~	D	L	P
350	1800	0.20	2381	7.75	10.85	51	98	21.8
	2200	0.20	2632	8.73	12.22	51	118	21.8
	2700	0.20	2916	9.79	13.70	51	138	21.8
	3300	0.20	3224	10.8	15.12	51	148	21.8
	3900	0.25	3504	12.9	18.06	64	119	28.2
	4700	0.25	3847	14.3	20.02	64	139	28.2
	4700	0.25	3847	16.0	22.40	77	101	31.4
	5600	0.25	4200	17.8	24.92	77	121	31.4
	6800	0.25	4628	19.8	27.72	77	141	31.4
	8200	0.25	5000	21.8	30.52	77	151	31.4
	8200	0.25	5000	25.8	36.12	90	121	31.4
	10000	0.25	5000	28.8	40.32	90	141	31.4
400	1500	0.20	2323	6.86	9.60	51	98	21.8
	1800	0.20	2545	7.65	10.71	51	118	21.8
	2200	0.20	2814	8.57	11.99	51	138	21.8
	2700	0.20	3117	9.50	13.30	51	148	21.8
	3300	0.20	3446	11.5	16.10	64	119	28.2
	3900	0.25	3746	12.7	17.78	64	139	28.2
	4700	0.25	4113	15.8	22.12	77	121	31.4
	5600	0.25	4489	17.5	24.50	77	141	31.4
	6800	0.25	4947	19.2	26.88	77	151	31.4
	6800	0.25	4947	22.9	32.06	90	121	31.4
	8200	0.25	5000	25.5	35.70	90	141	31.4
450	1200	0.20	2204	6.53	9.14	51	98	21.8
	1500	0.20	2464	7.43	10.40	51	118	21.8
	1800	0.20	2700	8.25	11.55	51	138	21.8
	2200	0.25	2984	10.1	14.14	64	119	28.2
	2700	0.25	3306	11.3	15.82	64	139	28.2
	3300	0.25	3655	12.5	17.50	64	149	28.2
	3900	0.25	3974	15.3	21.42	77	121	31.4
	4700	0.25	4362	17.0	23.80	77	141	31.4
	4700	0.25	4362	20.5	28.70	90	121	31.4
	6800	0.25	5000	24.7	34.58	90	141	31.4