

FEATURES

- DOUBLE LAYER CONSTRUCTION
- VERY HIGH CURRENT DISCHARGE (UP TO 1 AMP)
- IDEAL AS MEMORY BACK-UP POWER SUPPLY
- SUITABLE FOR FLOW SOLDERING
- LEAD-FREE FINISH

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Range	5.5 ~ 11VDC	
Rated Capacitance Range	0.022F ~ 1.0F (22,000µF ~ 1,000,000µF)	
Operating Temp. Range	-25°C ~ +70°C	
Capacitance Tolerance	+80%/-20% (Z)	
Load Life Test @ 70°C 1,000 hours	Δ Capacitance Change	Less than -15% of initial measured value
	Maximum ESR	Less than 120% of the specified maximum value
	Current at 30 minutes	Less than 200% of the specified maximum value
Temperature Cycling (5 cycles, -25 ~ +70°C)	Δ Capacitance Change	Within +80%/-20% of specified value
	Maximum ESR	Less than specified maximum value
	Current at 30 minutes	Less than specified maximum value
Humidity Resistance (240 hours @ 40°C/90% RH)	Δ Capacitance Change	Less than -10% of initial measured value
	Maximum ESR	Less than 120% of the specified maximum value
	Current at 30 minutes	Less than 120% of the specified maximum value

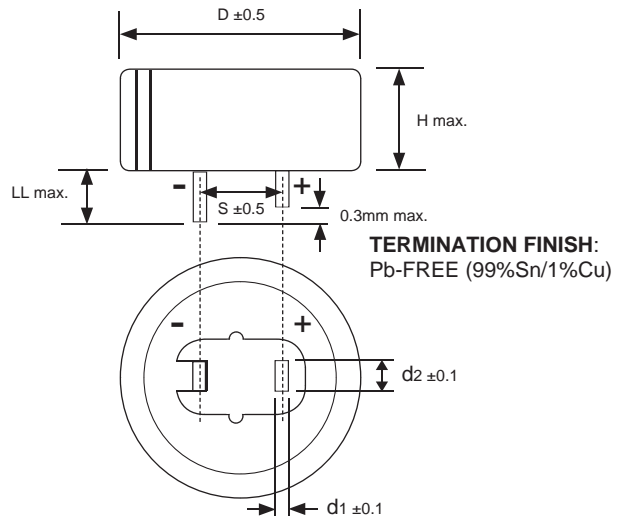
Super Capacitor
Application Guide

STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Capacitance Value (F)		Rated Voltage (VDC)	Max. Current @ 30 minutes (mA)	Max. ESR @ 1KHz (Ω)	Typical DCR (Ω)
	Charge	Discharge				
NEXA223Z11V16x25F	0.022	0.035	11	0.066	20	33
NEXA473Z5.5V15x15.5F	0.047	0.075	5.5	0.071	20	17
NEXA104Z5.5V21.5 x 15.5F	0.1	0.16	5.5	0.15	8	8
NEXA104Z11V28.5x25.5F	0.1	0.16	11	0.30	8	6.4
NEXA224Z5.5V28.5x16.5F	0.22	0.35	5.5	0.33	5	4.5
NEXA224Z11V36.5x27.5F	0.22	0.35	11	0.66	6	3.1
NEXA474Z5.5V36.5x16.5F	0.47	0.75	5.5	0.71	3.5	2.2
NEXA474Z11V44.5x28.5F	0.47	0.75	11	1.41	4	2.1
NEXA105Z5.5V44.5x18.5F	1.0	1.6	5.5	1.5	2.5	1.1

CASE DIMENSIONS (mm)

NIC P/N	DIMENSIONS (mm)					
	D	H	S	LL	d1	d2
NEXA223Z11V16x25F	16.0	25	5.1	5.0	0.4	1.2
NEXA473Z5.5V15x15.5F	16.0	15.5	5.1	5.0	0.4	1.2
NEXA104Z5.5V21.5x15.5F	21.5	15.5	7.6	5.5	0.6	1.2
NEXA104Z11V28.5x25.5F	28.5	25.5	10.2	9.5	0.6	1.4
NEXA224Z5.5V28.5x16.5F	28.5	16.5	10.2	9.5	0.6	1.4
NEXA224Z11V36.5x27.5F	36.5	27.5	15	9.5	1.0	1.4
NEXA474Z5.5V36.5x16.5F	36.5	16.5	15	9.5	0.6	1.7
NEXA474Z11V44.5x28.5F	44.5	28.5	20	9.5	1.0	1.4
NEXA105Z5.5V44.5x18.5F	44.5	18.5	20	9.5	1.0	1.4



PRECAUTIONS

WASHING in NOT RECOMMENDED. Special wash resistant parts are available. Contact NIC for details. Additional guidelines and precautions can be 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

