Memory Back-Up Capacitors

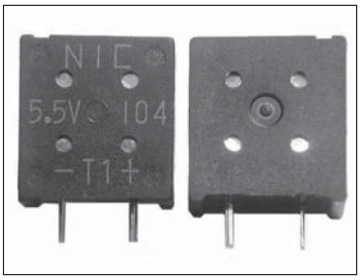
NEXM Series

FEATURES

- DOUBLE LAYER CONSTRUCTION
- POWER BACK-UP FOR CMOS RAM (UP TO 50μA DISCHARGE CURRENT)
- TAPE AND BOX PACKAGING
- SUITABLE FOR FLOW SOLDERING
- LEAD-FREE FINISH

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Range	3.5 ~ 6.5VDC	
Rated Capacitance Range	0.01F ~ 0.22F (10,000μF ~ 220,000μF)	
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 ±30% of initial measured value
	Maximum ESR	Less than 200% 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 ±20% 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

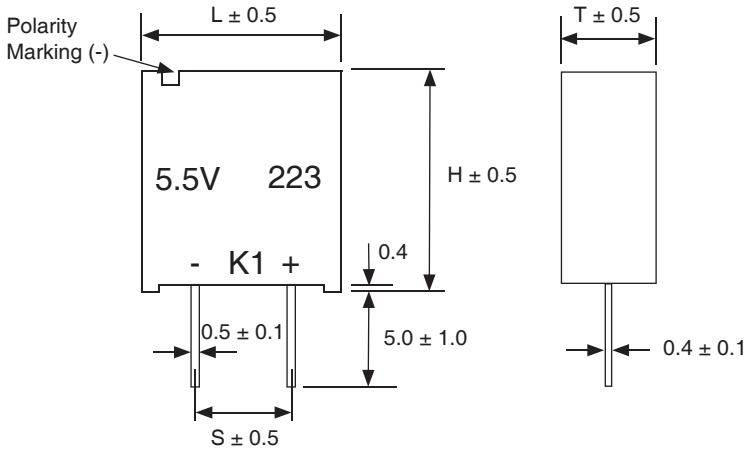
Super Capacitor Application Guide

STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Capacitance Value (F) Charge	Discharge	Rated Voltage (VDC)	Max. Current @ 30 minutes (mA)	Max. ESR @ 1KHz (Ω)
NEXM473Z3.5V10.5X5TBF	0.047	0.060	3.5	0.042	200
NEXM104Z3.5V10.5X5TBF	0.100	0.130	3.5	0.090	100
NEXM224Z3.5V10.5X6.5TBF	0.220	0.300	3.5	0.200	100
NEXM103Z5.5V10.5X5TBF	0.010	0.014	5.5	0.015	300
NEXM223Z5.5V10.5X5TBF	0.022	0.028	5.5	0.033	200
NEXM473Z5.5V10.5X5TBF	0.047	0.060	5.5	0.071	200
NEXM104Z5.5V10.5X6.5TBF	0.100	0.130	5.5	0.150	100
NEXM224Z5.5V10.5X6.5TBF	-	0.220	5.5	0.330	100
NEXM473Z6.5V10.5X6.5TBF	0.047	0.062	6.5	0.085	200

CASE DIMENSIONS (mm)

NIC P/N	DIMENSIONS (mm) L	H	S	T
NEXM473Z3.5V10.5X5TBF	10.5	11.5	5.0	5.0
NEXM104Z3.5V10.5X5TBF				5.0
NEXM224Z3.5V10.5X6.5TBF				6.5
NEXM103Z5.5V10.5X5TBF				5.0
NEXM223Z5.5V10.5X5TBF				5.0
NEXM473Z5.5V10.5X5TBF				5.0
NEXM104Z5.5V10.5X6.5TBF				6.5
NEXM224Z5.5V10.5X6.5TBF				6.5
NEXM473Z6.5V10.5X6.5TBF				6.5



PRECAUTIONS
Please review the notes on correct use, safety and precautions 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**