

## 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

"F" in Part Number Denotes ROHS Compliant



## CHARACTERISTICS

Rated Voltage Range	5.5 ~ 11VDC	
Rated Capacitance Range	0.022F ~ 1.0F (22,000 $\mu$ F ~ 1,000,000 $\mu$ F)	
Operating Temp. Range	-25°C ~ +70°C	
Capacitance Tolerance	+80%/-20% (Z)	
Load Life Test @ 70°C 1,000 hours	$\Delta$ 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)	$\Delta$ 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)	$\Delta$ 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

## STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Capacitance Value (F)		Rated Voltage (VDC)	Max. Current @ 30 minutes (mA)	Max. ESR @ 1KHz ( $\Omega$ )
	Charge	Discharge			
NEXA223Z11V16x25F	0.022	0.035	11	0.066	20
NEXA473Z5R5V15x15.5F	0.047	0.075	5.5	0.071	20
NEXA104Z5R5V21.5 x 15.5F	0.1	0.16	5.5	0.15	8
NEXA104Z11V28.5x25.5F	0.1	0.16	11	0.30	8
NEXA224Z5R5V28.5x16.5F	0.22	0.35	5.5	0.33	5
NEXA224Z11V36.5x27.5F	0.22	0.35	11	0.66	6
NEXA474Z5.5V36.5x16.5F	0.47	0.75	5.5	0.71	3.5
NEXA474Z11V44.5x28.5F	0.47	0.75	11	1.41	4
NEXA105Z5R5V44.5x18.5F	1.0	1.6	5.5	1.5	2.5

## 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
NEXA473Z5R5V15x15.5F	16.0	15.5	5.1	5.0	0.4	1.2
NEXA104Z5R5V21.5x15.5F	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
NEXA224Z5R5V28.5x16.5F	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
NEXA105Z5R5V44.5x18.5F	44.5	18.5	20	9.5	1.0	1.4

