# **NEXG Series**Memory Back-up Capacitors





NIC

NIC

NEXG 5.5V

NEXG 5.5V



### **FEATURES**

- DOUBLE LAYER CONSTRUCTION
- HIGH CURRENT DISCHARGE (UP TO 500μA)
- IDEAL FOR LONG TIME BACK-UP POWER SUPPLY
- · SUITABLE FOR FLOW SOLDERING
- LEAD-FREE FINISH

## **CHARACTERISTICS**

OTTAINA OT ENGLISH				
Rated Voltage Range	5.5VDC			
Rated Capacitance Range	0.01F ~ 4.7F (10,000μF ~ 4,700,000μF)			
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 ±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	$\Delta$ 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 ±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		

# STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Capacitance Value (F) Charge Discharge		Holding Voltage (VDC min.)  Max. Current ( 30 minutes (m.)		Max. ESR @ 1KHz (Ω)	Typical DCR (Ω)	
NEXG103Z5.5V11X5.5F	0.01	0.013	4.2	0.015	300	94	
NEXG223Z5.5V11X5.5F	0.022	0.028	4.2	0.033	200	31	
NEXG473Z5.5V11X5.5F	0.047	0.060	4.2	0.071	200	29	
NEXG104Z5.5V11X6.5F	0.10	0.13	4.2	0.15	100	16	
NEXG224Z5.5V13X9F	0.22	0.28	4.2	0.33	100	15	
NEXG474Z5.5V14.5X18F	0.47	0.60	4.2	0.71	120	26	
NEXG105Z5.5V16.5X19F	1.0	1.3	4.2	1.5	65	14	
NEXG225Z5.5V21.5X19F	2.2	2.8	4.2	3.3	35	7	
NEXG475Z5.5V28.5X22F	4.7	6.0	4.2	7.1	35	3.2	

#### **PRECAUTIONS**

Please review the notes on correct use, safety and precautions found at https://www.niccomp.com/resource/files/double/Double\_Layer\_Capacitor\_Guide\_0810-RevBrA7.pdf If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com

# Performance Passives By Design

# **NEXG Series**Memory Back-up Capacitors







# **CASE DIMENSIONS (mm)**

NIC P/N	DIMENSIONS (mm)						
NIC P/N	D	Н	S	L2 (ref)	LL	d1	d <sub>2</sub>
NEXG103Z5.5V11X5.5F	11.0	5.5	5.08	4.3±1.0	2.7	0.2	1.2
NEXG223Z5.5V11X5.5F	11.0	5.5	5.08	4.3±1.0	2.7	0.2	1.2
NEXG473Z5.5V11X5.5F	11.0	5.5	5.08	4.3±1.0	2.7	0.2	1.2
NEXG104Z5.5V11X6.5F	11.0	6.5	5.08	4.3±1.0	2.7	0.2	1.2
NEXG224Z5.5V13X9F	13.0	9.0	5.08	3.4±1.0	2.2	0.4	1.2
NEXG474Z5.5V14.5X18F	14.5	18.0	5.08	3.4±1.0	2.4	0.4	1.2
NEXG105Z5.5V16.5X19F	16.5	19.0	5.08	4.1±1.0	2.7	0.4	1.2
NEXG225Z5.5V21.5X19F	21.5	19.0	7.62	4.5±1.5	3.0	0.6	1.2
NEXG475Z5.5V28.5X22F	28.5	22.0	10.16	8.0±1.5	6.1	0.6	1.4

