

### FEATURES

- DOUBLE LAYER CONSTRUCTION
- RAPID CHARGE/DISCHARGE APPLICATIONS & ENERGY BACK-UP APPLICATIONS
- LONG LIFE (OVER TEN-THOUSAND CYCLES)
- ROHS COMPLIANT

**RoHS Compliant**  
includes all homogeneous materials

\*See Part Number System for Details



### CHARACTERISTICS

|                                                           |                      |                                                    |
|-----------------------------------------------------------|----------------------|----------------------------------------------------|
| Rated Voltage Range                                       | 2.5VDC               |                                                    |
| Rated Capacitance Range                                   | 2.2F ~ 150F          |                                                    |
| Operating Temp. Range                                     | -25°C ~ +70°C        |                                                    |
| Capacitance Tolerance                                     | ±20% (M) @ +20°C     |                                                    |
| Load Life Test @ 70°C<br>1,000 hours                      | Δ Capacitance Change | Within ±30% of initial measured value              |
|                                                           | Maximum ESR          | Less than 300% of the specified maximum value      |
| High Temperature Storage<br>1,000 hours at 70°C (no load) | Δ Capacitance Change | Less than < 30% of initial measured value at +20°C |

### STANDARD VALUES AND SPECIFICATIONS

| NIC P/N              | Capacitance Value (F) | Rated Voltage (VDC) | Leakage Current @ after 30 min. (mA) | Max. ESR @ 1KHz (Ω)<br>(AC current: 1 ~ 10mA) |
|----------------------|-----------------------|---------------------|--------------------------------------|-----------------------------------------------|
| NEDL225M2.5V8X16F    | 2.2                   | 2.5                 | 1.1                                  | ≤ 1.0                                         |
| NEDL335M2.5V8X20F    | 3.3                   | 2.5                 | 1.7                                  |                                               |
| NEDL475M2.5V10X20F   | 4.7                   | 2.5                 | 2.4                                  |                                               |
| NEDL106M2.5V10X35F   | 10                    | 2.5                 | 5                                    | ≤ 0.5                                         |
| NEDL106M2.5V12.5X25F | 10                    | 2.5                 | 5                                    |                                               |
| NEDL156M2.5V12.5X30F | 15                    | 2.5                 | 8                                    | ≤ 0.2                                         |
| NEDL226M2.5V16X25F   | 22                    | 2.5                 | 11                                   |                                               |
| NEDL306M2.5V16X31.5F | 30                    | 2.5                 | 15                                   |                                               |
| NEDL506M2.5V18X40F   | 50                    | 2.5                 | 25                                   |                                               |
| NEDL706M2.5V20X45F   | 70                    | 2.5                 | 35                                   |                                               |
| NEDL107M2.5V20X55F   | 100                   | 2.5                 | 50                                   |                                               |
| NEDL157M2.5V22X65F   | 150                   | 2.5                 | 75                                   |                                               |
|                      |                       |                     |                                      | ≤ 0.1                                         |

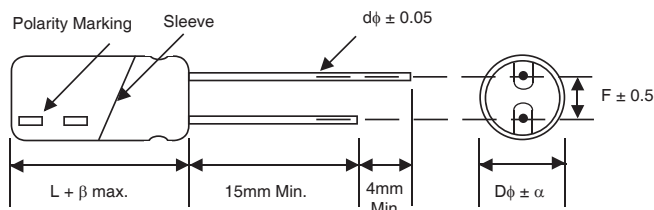
### PART NUMBER SYSTEM

NEDL 225 M 2.5V 8x16 F

Series    Capacitance Code in μF, first 2 digits are significant, third digit is no. of zeros  
Tolerance Code M = 20%  
Working Voltage  
Size in mm  
RoHS Compliant

### CASE DIMENSIONS (mm)

| DIMENSIONS (mm) |      |     |     |     |     |
|-----------------|------|-----|-----|-----|-----|
| D               | H    | S   | dφ  | α   | β   |
| 8               | 16   | 3.5 | 0.6 | 0.5 | 2.0 |
| 8               | 20   | 3.5 | 0.6 | 0.5 | 2.0 |
| 10              | 20   | 5.0 | 0.6 | 0.5 | 2.0 |
| 10              | 35   | 5.0 | 0.6 | 0.5 | 2.0 |
| 12.5            | 25   | 5.0 | 0.6 | 0.5 | 2.0 |
| 12.5            | 30   | 5.0 | 0.6 | 0.5 | 2.0 |
| 16              | 25   | 7.5 | 0.8 | 0.5 | 2.0 |
| 16              | 31.5 | 7.5 | 0.8 | 0.5 | 2.0 |
| 18              | 40   | 7.5 | 0.8 | 0.5 | 2.0 |
| 20              | 45   | 10  | 1.0 | 0.5 | 2.0 |
| 20              | 55   | 10  | 1.0 | 0.5 | 2.0 |
| 22              | 65   | 10  | 1.0 | 0.5 | 2.0 |



### PRECAUTIONS

Please review the notes on correct use, safety and precautions at [www.nicomp.com/precautions](http://www.nicomp.com/precautions)  
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: [tpmg@nicomp.com](mailto:tpmg@nicomp.com)



### PACKAGE QUANTITY

| NIC P/N              | Bulk Package Quantity |
|----------------------|-----------------------|
| NEDL225M2.5V8X16F    | 200                   |
| NEDL335M2.5V8X20F    | 200                   |
| NEDL475M2.5V10X20F   | 200                   |
| NEDL106M2.5V10X35F   | 200                   |
| NEDL106M2.5V12.5X25F | 500                   |
| NEDL156M2.5V12.5X30F | 500                   |
| NEDL226M2.5V16X25F   | 200                   |
| NEDL306M2.5V16X31.5F | 200                   |
| NEDL506M2.5V18X40F   | 200                   |
| NEDL706M2.5V20X45F   | 100                   |
| NEDL107M2.5V20X55F   | 100                   |
| NEDL157M2.5V22X65F   | 100                   |

