

**LNB** New!  
series

- **Low Profile** 薄至1.4mm的产品
- **Load life of 2000 hours at 105°C** 直流负荷寿命 105°C-2000 小时
- **RoHS 2.0 Compliant** 符合 RoHS2.0 规范
- **MSL 3** 湿敏 3 级

**Specifications 系列参数**

| Items 项目                                                                                                        | Characteristics 特性                                                                               |                                                                                                          |            |            |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|------------|
| Operating Temp. Range 工作温度范围                                                                                    | -55°C ~ +105°C                                                                                   |                                                                                                          |            |            |
| Capacitance Range 容量范围                                                                                          | 47 ~ 330μF                                                                                       |                                                                                                          |            |            |
| Capacitance Tolerance 容量偏差                                                                                      | M : ±20%                                                                                         |                                                                                                          |            |            |
| Rated Voltage Range 额定电压范围                                                                                      | 2V ~ 10V DC                                                                                      |                                                                                                          |            |            |
| Dissipation Factor 损耗角正切                                                                                        | ≤0.06(120Hz, 20°C)                                                                               |                                                                                                          |            |            |
| Leakage Current 漏电流                                                                                             | I ≤ 0.1CV(μA) (after 2 minutes) (2V.DC ~ 6.3V.DC);<br>I ≤ 0.3CV(μA) (after 2 minutes) (>6.3V.DC) |                                                                                                          |            |            |
| Surge Voltage 浪涌电压                                                                                              | Rated working voltage × 1.25 (15°C~35°C) 额定电压的 1.25 倍 (恒定温度 15°C~35°C)                           |                                                                                                          |            |            |
| Endurance<br>105°C, 2000h, at rated voltage<br>寿命:<br>105°C 加载额定电压连续工作 2000 小时                                  | Capacitance Change 容量变化                                                                          | Within ±20% of the initial value 初始值±20%以内                                                               |            |            |
|                                                                                                                 | Dissipation Factor 损耗角正切                                                                         | ≤ 2 times of the initial limit 不超初始规格值的 200%                                                             |            |            |
|                                                                                                                 | Leakage current 漏电流                                                                              | ≤ 3 times of the initial limit 不超初始规格值的 300%                                                             |            |            |
| Humidity Resistance<br>60°C, 90 ~ 95%RH, 500h, at rated voltage<br>耐湿性<br>60°C, 90 ~ 95%RH 加载额定电压连续工作<br>500 小时 | Capacitance Change 容量变化                                                                          | 2.0V~2.5V                                                                                                | 2.0V~2.5V  | 2.0V~2.5V  |
|                                                                                                                 |                                                                                                  | +70%, -20%                                                                                               | +70%, -20% | +70%, -20% |
|                                                                                                                 | Dissipation Factor 损耗角正切                                                                         | ≤ 2 times of the initial limit 不超初始规格值的 200%                                                             |            |            |
|                                                                                                                 | Leakage Current 漏电流                                                                              | Within the initial limit 不超初始规格值 (2.0 V to 6.3 V)<br>≤ 3 times of the initial limit 不超初始规格值的 300% (10 V) |            |            |

**Dimensions 尺寸 (Unit单位:mm)**

|                   |         |         |         |         |             |
|-------------------|---------|---------|---------|---------|-------------|
|                   |         |         |         |         |             |
| Size Code<br>尺寸代码 | L       | W       | H       | W1/W2   | L1/L2       |
| W                 | 7.3±0.3 | 4.3±0.3 | 1.4±0.2 | 2.4±0.3 | 1.3/3.4±0.3 |

**Marking 标识**

|                                                                                         |  |
|-----------------------------------------------------------------------------------------|--|
|                                                                                         |  |
| <b>Date Code 制造周期说明:</b><br>“2”: Last digit of Christian year 公历年最后一位<br>“35”: week 周代码 |  |

Characteristics List 规格特性表

| W.V.<br>工作电压<br>(V) | Capacitance<br>容量<br>(μF) | Size 尺寸(mm) |     |     | ESR<br>等效串联电阻<br>(100kHz / +20℃)<br>(mΩ) | Rated Ripple Current<br>额定纹波电流<br>(100 kHz / +45 °C)<br>(mA,r.m.s) | Part Number*<br>物料编码* |
|---------------------|---------------------------|-------------|-----|-----|------------------------------------------|--------------------------------------------------------------------|-----------------------|
|                     |                           | L           | W   | H   |                                          |                                                                    |                       |
| 2                   | 180                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB181M002W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5600                                                               | LNB181M002W00TB0012   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB181M002W00TB0009   |
|                     | 220                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB221M002W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5600                                                               | LNB221M002W00TB0012   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB221M002W00TB0009   |
|                     | 270                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB271M002W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5600                                                               | LNB271M002W00TB0012   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB271M002W00TB0009   |
|                     |                           | 7.3         | 4.3 | 1.4 | 6                                        | 7500                                                               | LNB271M002W00TB0006   |
|                     |                           | 7.3         | 4.3 | 1.4 | 4.5                                      | 8500                                                               | LNB271M002W00TB004R5  |
|                     | 330                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB331M002W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5600                                                               | LNB331M002W00TB0012   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB331M002W00TB0009   |
|                     |                           | 7.3         | 4.3 | 1.4 | 6                                        | 7500                                                               | LNB331M002W00TB0006   |
|                     |                           | 7.3         | 4.3 | 1.4 | 4.5                                      | 8500                                                               | LNB331M002W00TB004R5  |
| 2.5                 | 150                       | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB151M2R5W00TB0009   |
|                     | 180                       | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB181M2R5W00TB0009   |
|                     | 220                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB221M2R5W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB221M2R5W00TB0009   |
|                     |                           | 7.3         | 4.3 | 1.4 | 7                                        | 7000                                                               | LNB221M2R5W00TB0007   |
|                     | 270                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB271M2R5W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB271M2R5W00TB0009   |
|                     |                           | 7.3         | 4.3 | 1.4 | 6                                        | 7500                                                               | LNB271M2R5W00TB0006   |
|                     |                           | 7.3         | 4.3 | 1.4 | 4.5                                      | 8500                                                               | LNB271M2R5W00TB004R5  |
|                     |                           | 7.3         | 4.3 | 1.4 | 3                                        | 10200                                                              | LNB271M2R5W00TB0003   |
| 4                   | 82                        | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB820M004W00TB0009   |
|                     | 100                       | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB101M004W00TB0009   |
|                     | 150                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB151M004W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB151M004W00TB0009   |
|                     |                           | 7.3         | 4.3 | 1.4 | 7                                        | 7000                                                               | LNB151M004W00TB0007   |
|                     | 180                       | 7.3         | 4.3 | 1.4 | 15                                       | 7000                                                               | LNB181M004W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5100                                                               | LNB181M004W00TB0012   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 5600                                                               | LNB181M004W00TB0009   |
|                     | 220                       | 7.3         | 4.3 | 1.4 | 15                                       | 6300                                                               | LNB221M004W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5100                                                               | LNB221M004W00TB0012   |
|                     |                           | 7.3         | 4.3 | 1.4 | 9                                        | 5600                                                               | LNB221M004W00TB0009   |
| 6.3                 | 100                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB101M6R3W00TB0015   |
|                     | 120                       | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB121M6R3W00TB0015   |
|                     | 150                       | 7.3         | 4.3 | 1.4 | 9                                        | 6300                                                               | LNB121M6R3W00TB0009   |
|                     |                           | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB151M6R3W00TB0015   |
|                     |                           | 7.3         | 4.3 | 1.4 | 12                                       | 5600                                                               | LNB151M6R3W00TB0012   |
| 10                  | 47                        | 7.3         | 4.3 | 1.4 | 28                                       | 3800                                                               | LNB470M010W00TB0028   |
|                     |                           | 7.3         | 4.3 | 1.4 | 18                                       | 4700                                                               | LNB470M010W00TB0018   |
|                     | 68                        | 7.3         | 4.3 | 1.4 | 28                                       | 4000                                                               | LNB680M010W00TB0028   |
|                     |                           | 7.3         | 4.3 | 1.4 | 18                                       | 4700                                                               | LNB680M010W00TB0018   |
|                     |                           | 7.3         | 4.3 | 1.4 | 15                                       | 5100                                                               | LNB680M010W00TB0015   |

| W.V.<br>工作电压<br>(V) | Capacitance<br>容量<br>( $\mu$ F) | Size 尺寸(mm) |     |     | ESR<br>等效串联电阻<br>(100kHz / +20°C)<br>(m $\Omega$ ) | Rated Ripple Current<br>额定纹波电流<br>(100 kHz / +45 °C)<br>(mA <sub>r.m.s</sub> ) | Part Number*<br>物料编码* |
|---------------------|---------------------------------|-------------|-----|-----|----------------------------------------------------|--------------------------------------------------------------------------------|-----------------------|
|                     |                                 | L           | W   | H   |                                                    |                                                                                |                       |
| 10                  | 100                             | 7.3         | 4.3 | 1.4 | 25                                                 | 4000                                                                           | LNB101M010W00TB0025   |
|                     |                                 | 7.3         | 4.3 | 1.4 | 15                                                 | 5100                                                                           | LNB101M010W00TB0015   |
|                     |                                 | 7.3         | 4.3 | 1.4 | 9                                                  | 6300                                                                           | LNB101M010W00TB0009   |

\* Default tin plated terminals and 13 inch reels in Part Numbers 物料编码中默认镀锡端子和 13 英寸卷盘

### Temperature Compensation Coefficient for Ripple Current 纹波电流温度系数

| Temperature 温度                  | $T \leq 45^{\circ}\text{C}$ | $45^{\circ}\text{C} < T \leq 85^{\circ}\text{C}$ | $85^{\circ}\text{C} < T \leq 105^{\circ}\text{C}$ | $105^{\circ}\text{C} < T \leq 125^{\circ}\text{C}$ |
|---------------------------------|-----------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------------------------|
| Coefficient 系数<br>(2.0V ~ 6.3V) | 1.00                        | 0.70                                             | 0.25                                              | 0.25                                               |
| Coefficient 系数<br>(10V)         | 1.00                        | 0.80                                             | 0.50                                              | 0.25                                               |