

SPECIFICATION SHEET

DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| SPECIFICATION SHEET NO. | S0211- SL107M100HGHI | S0211- SL107M100HGHRR | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|
| ORIGINAL MFG/PART NO | Aillen Capacitors/CBE107 | /M2AHSLG20RR | | | | | | |
| NEXTGEN PART CODE | SL107M100HGHRR | Indicate This Code For <u>RFQ</u> /Order | | | | | | |
| DATE | Feb. 11, 2025 | | | | | | | |
| REVISION | A2 | Updated With Most Recent Data | | | | | | |
| DESCRIPTION AND | Dip Aluminum Electrolyti | c Capacitors, Radial Type, SL series, 2 Pins | | | | | | |
| MAIN PARAMETRICS | Case size: Ø10.0*L20.0m Impedance: 0.084Ω Max Load Life: 10,000 Hours (| @105℃, 40℃ ~+105℃, Package in Bulk, | | | | | | |
| CUSTOMER | | | | | | | | |
| CUSTOMER PART NUMBER | | | | | | | | |
| CROSS REF. PART NUMBER | | | | | | | | |
| ΜΕΜΟ | | | | | | | | |

VENDOR APPROVE Issued/Checked/Approved Issued/Checked/Approved

DATE:

2/11/2025



PART CODE: **SL107M100HGHRR** DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

MAIN FEATURE

- Through Hole Aluminum Electrolytic Capacitors, Radial Type
- Long Load Life 10,000 hours
- High Working Voltage and High Ripple Current
- Low Impedance
- Available For High Density Surface Mounting
- Rated Voltage Range from 6.3V to 100V
- Offer Quality Alternatives Parts For Major Brand KEMET/CHEMI-CON/NICHICON
 - /RUBYCON and more
- Moisture Sensitivity Level (MSL) 1 (Unlimited)
- Package in Bulk, Box and Tape Option
- REACH/RoHS/RoHS III Compliant & Halogen Free

MAIN APPLICATION

• For Standard Circuit Like Coupling Filter And Energy Storage Etc

ELECTRICAL CHARACTERISTICS

- See Page 7 ~ Page 12 for Different Part Code
- All Products Parameters are Subject To NextGen Components' Final Confirmation.

HOW TO ORDER

Please Follow Up Part Code Guide And Indicate Part Code <u>SL107M100HGHRR</u> For

RFQ/Order.



Image shown is a representation only. Exact specifications should be obtained from the product dimension.





DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

PART CODE GUIDE

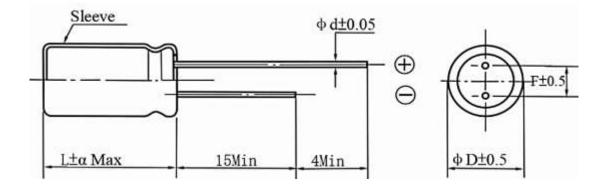
RFQ Request For Quotation

| CODE | NAME | KEY SPECIFICATION OPTION |
|------|--|---|
| SL | Product Index | Dip Capacitors Aluminum Electrolytic, Radial Type, Original Series Number CDSL |
| 107 | Rated Capacitance | 336: 33μF; 476: 47μF; 566: 56μF; 686: 68μF; 826: 82μF; 107: 100μF; 127: 120μF; 157: 150μF; 187: 180μF; 227: 220μF 277: 270μF; 337: 330μF; 397: 390μF; 477: 470μF; 567: 560μF 687: 680μF; 827: 820μF; 108: 1000μF; 128: 1200μF; 158: 1500μF; 188: 1800μF; 228: 2200μF;278: 2700μF; 338: 3300μF; 398: 3900μF; 478: 4700μF; 568: 5600μF; 688: 6800μF; 828: 8200μF; 109: 10000μF; |
| М | Capacitance Tolerance | M: ±20%; V: -10% ~ +20% |
| 100 | Rated Voltage | 6V3: 6.3V; 010: 10V; 016:16V; 025: 25V; 035: 35V; 050: 50V; 063: 63V; 100: 100V |
| Н | Environmental Requirements | R: RoHS/RoHS III Complaint Remark: Product Set PVC Sleeve H: RoHS/RoHS III Complaint and Halogen Free, Remark: Product Set PET Sleeve |
| G | Aluminum Case Diameter | D: Ø5.0mm; E: Ø6.3mm; F: Ø8.0mm; G: Ø10.0mm; I:Ø12.5mm; J: Ø13.0mm; K: Ø16.0mm; L: Ø18.0mm; N: Ø22.0mm |
| Н | Aluminum Case Heigh Length | When the code is number, it represent the actual height. E.g. 7: L7.0mm; 8: L8.0mm; 9: L9.0mm; A: L10mm; B: L11mm; C: L12mm; D: L12.5mm; E: L13.5mm; F: L14.5mm: G: L16mm; H: L20mm; I: L21.5mm; J: L25mm; K: L30mm; L: L31.5mm; M: L35mm; N: L35.5mm; O: L40mm |
| RR | Lead Pitch/Package (see Page 22 ~ Page 30) | RR: Bulk; R2: Lead Pitch=2.5mm Bulk; T2: Lead Pitch=2.0mm Tape TB: Lead Pitch=2.5mm Tape; T3: Lead Pitch=3.5mm Tape; T5: Lead Pitch=5.0mm Tape; T7: Lead Pitch=7.5mm Tape; CA: Cutting Lead long=3.0mm; CB: Cutting Lead long=3.5mm; CC: Cutting Lead long=4.0mm; CD: Cutting Lead long=4.5mm |
| ХХ | Suffix | Blank: N/A; XX: Internal Control Code, Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

DIMENSIONS (Unit: mm)



| SYMBOL | DIMENSION | | | | | | | | | | | |
|--------|------------|-------------------------|--------------|--------------|-----|------|-----|-----|-----|--|--|--|
| D | 5.0 | 6.3 | 8.0 @L<20 | 8.0 @L≥20 | 10 | 12.5 | 13 | 16 | 18 | | | |
| F | 2.0 | 2.5 | 2.5 | 3.5 | 5.0 | 5.0 | 5.0 | 7.5 | 7.5 | | | |
| d | 0.5 | | | 0.6 | 0.6 | 0.6 | 0.7 | 0.8 | 0.8 | | | |
| α | 1.5: L < 2 | 1.5: L < 20; 2.0: @L≥20 | | | | | | | | | | |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

MARKING GUIDE

| NAME | SYMBOL | CONTENT |
|-------------------------|--------|---|
| Nominal Capacitance | 1 | 100µF |
| Rated Voltage | 2 | 100V |
| Polarity | | $ \rightarrow \rightarrow $ |
| Original Manufacturer | 3 | Aillen |
| QC Code and Series Code | 4 | CDSL |
| Temperature Range | 5 | -40~+105°C |
| Casing Type | | Sleeve And Printing Color: White Printing on brown Sleeve |
| Marking | | $ \begin{array}{c} 1\\ 2\\ \hline \\ \end{array} \\ \hline \\ 3\\ \hline \\ 4\\ \hline \\ \end{array} $ |

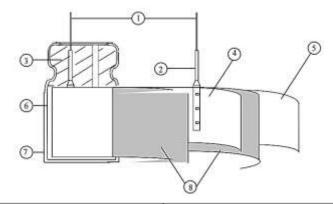


CONSTRUCTION

Single ended type to be produced to fix the terminals to anode and cathode foil, and wind together with paper,

and then wound element to be impregnated with electrolyte will be enclosed in an aluminum case. Finally sealed

up tightly with end seal rubber, then finished by putting on the vinyl sleeve.



| NO. | COMPONENT | MATERIAL |
|-----|------------------|--|
| 1 | Lead Line | Tinned CP Wire (Pb Free) |
| 2 | Terminal | Aluminum Wire |
| 3 | Sealing Material | Rubber |
| 4 | Al-Foil (+) | Formed Aluminum Foil |
| 5 | Al-Foil (-) | Etched Aluminum Foil Or Formed Aluminum Foil |
| 6 | Case | Aluminum Case |
| 7 | Sleeve | PET |
| 8 | Separator | Electrolyte Paper |

GENERAL ELECTRICAL CHARACTERISTICS – FOR DIFFERENT PART CODE

| PARAMETER | UNITS | VALUE |
|--------------------------------------|-------|------------|
| Operating Junction Temperature Range | °C | -40 ~ +105 |
| Storage Temperature Range | °C | -55 ~ +150 |

2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ELECTRICAL CHARACTERISTICS - Ta = 25°C, FOR DIFFERENT PART CODE

| Part Code | Capacitance | Rate | Surge | Max. | Max. | Max. | Load |
|----------------|-------------|---------|---------|-------------|-----------|------------|-------|
| | @20°C | Voltage | Voltage | Dissipation | Impedance | Ripple | Life |
| | - | | | Factor | @+20°C | Current | @ |
| | | | | @+20°C | 100KHz | @at 105°C, | 105°C |
| | | | | 120Hz | | 100kHz | |
| | μF | V | v | % | Ω | mA rms | Hour |
| SL477M6V3HEBRR | 470 | 6.3 | 8 | 22 | 0.17 | 540 | 6000 |
| SL827M6V3HFCRR | 820 | 6.3 | 8 | 22 | 0.075 | 945 | 8000 |
| SL108M6V3HFGRR | 1000 | 6.3 | 8 | 22 | 0.059 | 1250 | 9000 |
| SL128M6V3HGDRR | 1200 | 6.3 | 8 | 22 | 0.053 | 1330 | 9000 |
| SL158M6V3HFHRR | 1500 | 6.3 | 8 | 22 | 0.041 | 1500 | 9000 |
| SL188M6V3HGGRR | 1800 | 6.3 | 8 | 22 | 0.038 | 1760 | 10000 |
| SL278M6V3HGHRR | 2700 | 6.3 | 8 | 22 | 0.028 | 1960 | 10000 |
| SL338M6V3HGJRR | 3300 | 6.3 | 8 | 22 | 0.024 | 2250 | 10000 |
| SL398M6V3HJHRR | 3900 | 6.3 | 8 | 22 | 0.025 | 2480 | 10000 |
| SL478M6V3HJJRR | 4700 | 6.3 | 8 | 22 | 0.019 | 2900 | 10000 |
| SL568M6V3HJKRR | 5600 | 6.3 | 8 | 22 | 0.018 | 3450 | 10000 |
| SL688M6V3HKHRR | 6800 | 6.3 | 8 | 22 | 0.021 | 3250 | 10000 |
| SL828M6V3HKJRR | 8200 | 6.3 | 8 | 22 | 0.017 | 3630 | 10000 |
| SL337M010HEBRR | 330 | 10 | 13 | 19 | 0.17 | 700 | 7000 |
| SL567M010HFCRR | 560 | 10 | 13 | 19 | 0.075 | 1200 | 9000 |
| SL687M010HFGRR | 680 | 10 | 13 | 19 | 0.059 | 1600 | 10000 |
| SL827M010HGDRR | 820 | 10 | 13 | 19 | 0.053 | 1700 | 9000 |
| SL108M010HFHRR | 1000 | 10 | 13 | 19 | 0.041 | 1960 | 10000 |
| SL128M010HGGRR | 1200 | 10 | 13 | 19 | 0.038 | 2000 | 10000 |
| SL188M010HGHRR | 1800 | 10 | 13 | 19 | 0.028 | 2500 | 10000 |

2/11/2025

NextGen Components, Inc.



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ELECTRICAL CHARACTERISTICS - Ta = 25°C, FOR DIFFERENT PART CODE

| Part Code | Capacitance | Rate | Surge | Max. | Max. | Max. | Load |
|----------------|-------------|---------|---------|-------------|-----------|------------|-------|
| | @20°C | Voltage | Voltage | Dissipation | Impedance | Ripple | Life |
| | | | | Factor | @+20°C | Current | @ |
| | | | | @+20°C | 100KHz | @at 105°C, | 105°C |
| | | | | 120Hz | | 100kHz | |
| | μF | V | v | % | Ω | mA rms | Hour |
| SL228M010HGJRR | 2200 | 10 | 13 | 19 | 0.024 | 2900 | 10000 |
| SL278M010HJHRR | 2700 | 10 | 13 | 19 | 0.025 | 2600 | 10000 |
| SL338M010HJJRR | 3300 | 10 | 13 | 19 | 0.019 | 3200 | 10000 |
| SL478M010HJKRR | 4700 | 10 | 13 | 19 | 0.018 | 3660 | 10000 |
| SL478M010HKHRR | 4700 | 10 | 13 | 19 | 0.021 | 3330 | 10000 |
| SL568M010HJMRR | 5600 | 10 | 13 | 19 | 0.016 | 4120 | 10000 |
| SL568M010HKJRR | 5600 | 10 | 13 | 19 | 0.017 | 3810 | 10000 |
| SL277M016HEBRR | 270 | 16 | 20 | 16 | 0.17 | 700 | 7000 |
| SL477M016HFCRR | 470 | 16 | 20 | 16 | 0.075 | 1200 | 9000 |
| SL567M016HFGRR | 560 | 16 | 20 | 16 | 0.059 | 1600 | 10000 |
| SL687M016HGDRR | 680 | 16 | 20 | 16 | 0.053 | 1700 | 9000 |
| SL827M016HFHRR | 820 | 16 | 20 | 16 | 0.041 | 1960 | 10000 |
| SL108M016HGGRR | 1000 | 16 | 20 | 16 | 0.038 | 2000 | 10000 |
| SL158M016HGHRR | 1500 | 16 | 20 | 16 | 0.028 | 2500 | 10000 |
| SL188M016HGJRR | 1800 | 16 | 20 | 16 | 0.024 | 2900 | 10000 |
| SL228M016HJHRR | 2200 | 16 | 20 | 16 | 0.025 | 2600 | 10000 |
| SL278M016HJJRR | 2700 | 16 | 20 | 16 | 0.019 | 3200 | 10000 |
| SL338M016HJKRR | 3300 | 16 | 20 | 16 | 0.018 | 3660 | 10000 |
| SL338M016HKHRR | 3300 | 16 | 20 | 16 | 0.021 | 3330 | 10000 |
| SL478M016HKJRR | 4700 | 16 | 20 | 16 | 0.017 | 3810 | 10000 |

2/11/2025

NextGen Components, Inc.



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ELECTRICAL CHARACTERISTICS - Ta = 25°C, FOR DIFFERENT PART CODE

| Part Code | Capacitance | Rate | Surge | Max. | Max. | Max. | Load |
|----------------|-------------|---------|---------|-------------|-----------|------------|-------|
| | @20°C | Voltage | Voltage | Dissipation | Impedance | Ripple | Life |
| | | | | Factor | @+20°C | Current | @ |
| | | | | @+20°C | 100KHz | @at 105°C, | 105°C |
| | | | | 120Hz | | 100kHz | |
| | μF | V | v | % | Ω | mA rms | Hour |
| SL157M025HECRR | 150 | 25 | 32 | 14 | 0.17 | 700 | 7000 |
| SL337M025HFCRR | 330 | 25 | 32 | 14 | 0.075 | 1200 | 9000 |
| SL397M025HFGRR | 390 | 25 | 32 | 14 | 0.059 | 1600 | 10000 |
| SL477M025HGDRR | 470 | 25 | 32 | 14 | 0.053 | 1700 | 9000 |
| SL567M025HFHRR | 560 | 25 | 32 | 14 | 0.041 | 1960 | 10000 |
| SL687M025HGGRR | 680 | 25 | 32 | 14 | 0.038 | 2000 | 10000 |
| SL108M025HGHRR | 1000 | 25 | 32 | 14 | 0.028 | 2500 | 10000 |
| SL128M025HGJRR | 1200 | 25 | 32 | 14 | 0.024 | 2900 | 10000 |
| SL158M025HJHRR | 1500 | 25 | 32 | 14 | 0.025 | 2600 | 10000 |
| SL188M025HJJRR | 1800 | 25 | 32 | 14 | 0.019 | 3200 | 10000 |
| SL228M025HKHRR | 2200 | 25 | 32 | 14 | 0.021 | 3330 | 10000 |
| SL228M025HJKRR | 2200 | 25 | 32 | 14 | 0.018 | 3660 | 10000 |
| SL338M025HKJRR | 3300 | 25 | 32 | 14 | 0.017 | 3810 | 10000 |
| SL109M025HLNRR | 10000 | 25 | 32 | 14 | 0.014 | 4220 | 10000 |
| SL107M035HECRR | 100 | 35 | 44 | 12 | 0.17 | 700 | 7000 |
| SL107M035HGDT5 | 100 | 35 | 44 | 12 | 0.065 | 1300 | 10000 |
| SL187M035HFCRR | 180 | 35 | 44 | 12 | 0.075 | 1200 | 9000 |
| SL227M035HFGRR | 220 | 35 | 44 | 12 | 0.059 | 1600 | 10000 |
| SL277M035HGDRR | 270 | 35 | 44 | 12 | 0.053 | 1700 | 9000 |
| SL337M035HFHRR | 330 | 35 | 44 | 12 | 0.041 | 1960 | 10000 |

2/11/2025

NextGen Components, Inc.



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ELECTRICAL CHARACTERISTICS - Ta = 25°C, FOR DIFFERENT PART CODE

| Part Code | Capacitance | Rate | Surge | Max. | Max. | Max. | Load |
|----------------|-------------|---------|---------|-------------|-----------|------------|-------|
| | @20°C | Voltage | Voltage | Dissipation | Impedance | Ripple | Life |
| | 670.0 | | | Factor | @+20°C | Current | @ |
| | | | | @+20°C | 100KHz | @at 105°C, | 105°C |
| | | | | 120Hz | | 100kHz | |
| | μF | V | V | % | Ω | mA rms | Hour |
| SL397M035HGGRR | 390 | 35 | 44 | 12 | 0.038 | 2000 | 10000 |
| SL567M035HGHRR | 560 | 35 | 44 | 12 | 0.028 | 2500 | 10000 |
| SL687M035HGJRR | 680 | 35 | 44 | 12 | 0.024 | 2900 | 10000 |
| SL827M035HJHRR | 820 | 35 | 44 | 12 | 0.025 | 2600 | 10000 |
| SL108M035HGJRR | 1000 | 35 | 44 | 12 | 0.027 | 2500 | 10000 |
| SL128M035HJJRR | 1200 | 35 | 44 | 12 | 0.019 | 3200 | 10000 |
| SL158M035HJKRR | 1500 | 35 | 44 | 12 | 0.018 | 3660 | 10000 |
| SL158M035HKHRR | 1500 | 35 | 44 | 12 | 0.021 | 3330 | 10000 |
| SL188M035HKJRR | 1800 | 35 | 44 | 12 | 0.017 | 3810 | 10000 |
| SL566M050HECRR | 56 | 50 | 63 | 10 | 0.22 | 500 | 7000 |
| SL107M050HFCRR | 100 | 50 | 63 | 10 | 0.12 | 950 | 9000 |
| SL127M050HFGRR | 120 | 50 | 63 | 10 | 0.082 | 1230 | 10000 |
| SL157M050HGDRR | 150 | 50 | 63 | 10 | 0.073 | 1280 | 9000 |
| SL187M050HFHRR | 180 | 50 | 63 | 10 | 0.058 | 1580 | 10000 |
| SL227M050HGGRR | 220 | 50 | 63 | 10 | 0.053 | 1650 | 10000 |
| SL337M050HGHRR | 330 | 50 | 63 | 10 | 0.038 | 2060 | 10000 |
| SL397M050HGJRR | 390 | 50 | 63 | 10 | 0.032 | 2420 | 10000 |
| SL477M050HJHRR | 470 | 50 | 63 | 10 | 0.032 | 2300 | 10000 |
| SL477M050HGHRR | 470 | 50 | 63 | 10 | 0.038 | 2060 | 10000 |
| SL687M050HJJRR | 680 | 50 | 63 | 10 | 0.025 | 2800 | 10000 |

2/11/2025

NextGen Components, Inc.



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ELECTRICAL CHARACTERISTICS - Ta = 25°C, FOR DIFFERENT PART CODE

| Part Code | Capacitance | Rate | Surge | Max. | Max. | Max. | Load |
|----------------|-------------|---------|---------|-------------|-----------|------------|-------|
| | @20°C | Voltage | Voltage | Dissipation | Impedance | Ripple | Life |
| | 620 0 | | | Factor | @+20°C | Current | @ |
| | | | | @+20°C | 100KHz | @at 105°C, | 105°C |
| | | | | 120Hz | | 100kHz | |
| | μF | V | V | % | Ω | mA rms | Hour |
| SL827M050HJKRR | 820 | 50 | 63 | 10 | 0.023 | 3370 | 10000 |
| SL827M050HKHRR | 820 | 50 | 63 | 10 | 0.026 | 3070 | 10000 |
| SL108M050HKJRR | 1000 | 50 | 63 | 10 | 0.022 | 3510 | 10000 |
| SL826M063HFCRR | 82 | 63 | 79 | 9 | 0.18 | 720 | 8000 |
| SL107M063HFGRR | 100 | 63 | 79 | 9 | 0.13 | 990 | 9000 |
| SL127M063HGDRR | 120 | 63 | 79 | 9 | 0.11 | 990 | 9000 |
| SL157M063HFHRR | 150 | 63 | 79 | 9 | 0.096 | 1200 | 9000 |
| SL187M063HGGRR | 180 | 63 | 79 | 9 | 0.076 | 1200 | 10000 |
| SL227M063HGGRR | 220 | 63 | 79 | 9 | 0.076 | 1200 | 10000 |
| SL277M063HGHRR | 270 | 63 | 79 | 9 | 0.056 | 1570 | 10000 |
| SL337M063HGJRR | 330 | 63 | 79 | 9 | 0.046 | 1990 | 10000 |
| SL397M063HJHRR | 390 | 63 | 79 | 9 | 0.041 | 1990 | 10000 |
| SL477M063HJJRR | 470 | 63 | 79 | 9 | 0.031 | 2460 | 10000 |
| SL567M063HJKRR | 560 | 63 | 79 | 9 | 0.028 | 2760 | 10000 |
| SL567M063HKHRR | 560 | 63 | 79 | 9 | 0.032 | 2380 | 10000 |
| SL687M063HJKRR | 680 | 63 | 79 | 9 | 0.026 | 2800 | 10000 |
| SL827M063HKJRR | 820 | 63 | 79 | 9 | 0.025 | 2890 | 10000 |
| SL336M100HFCRR | 33 | 100 | 125 | 8 | 0.29 | 620 | 8000 |
| SL476M100HFGRR | 47 | 100 | 125 | 8 | 0.2 | 780 | 9000 |
| SL566M100HGDRR | 56 | 100 | 125 | 8 | 0.17 | 780 | 9000 |

2/11/2025

NextGen Components, Inc.



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ELECTRICAL CHARACTERISTICS - Ta = 25°C, FOR DIFFERENT PART CODE

| Part Code | Capacitance | Rate | Surge | Max. | Max. | Max. | Load |
|----------------|-------------|---------|---------|-------------|-----------|------------|-------|
| | @20°C | Voltage | Voltage | Dissipation | Impedance | Ripple | Life |
| | | | | Factor | @+20°C | Current | @ |
| | | | | @+20°C | 100KHz | @at 105°C, | 105°C |
| | | | | 120Hz | | 100kHz | |
| | μF | V | V | % | Ω | mA rms | Hour |
| SL686M100HFHRR | 68 | 100 | 125 | 8 | 0.16 | 1040 | 9000 |
| SL826M100HGGRR | 82 | 100 | 125 | 8 | 0.11 | 1040 | 10000 |
| SL107M100HGHRR | 100 | 100 | 125 | 8 | 0.084 | 1430 | 10000 |
| SL127M100HGJRR | 120 | 100 | 125 | 8 | 0.069 | 1620 | 10000 |
| SL157M100HJHRR | 150 | 100 | 125 | 8 | 0.062 | 1750 | 10000 |
| SL227M100HJJRR | 220 | 100 | 125 | 8 | 0.047 | 2210 | 10000 |
| SL277M100HJKRR | 270 | 100 | 125 | 8 | 0.042 | 2400 | 10000 |
| SL277M100HKHRR | 270 | 100 | 125 | 8 | 0.048 | 1950 | 10000 |
| SL397M100HKJRR | 390 | 100 | 125 | 8 | 0.038 | 2430 | 10000 |
| SL397M100HLHRR | 390 | 100 | 125 | 8 | 0.045 | 2270 | 10000 |
| SL477M100HKLRR | 470 | 100 | 125 | 8 | 0.032 | 2640 | 10000 |
| SL477M100HLJRR | 470 | 100 | 125 | 8 | 0.036 | 2500 | 10000 |
| SL567M100HKNRR | 560 | 100 | 125 | 8 | 0.029 | 2860 | 10000 |
| SL567M100HLLRR | 560 | 100 | 125 | 8 | 0.03 | 2860 | 10000 |
| SL687M100HKORR | 680 | 100 | 125 | 8 | 0.027 | 3510 | 10000 |
| SL687M100HLNRR | 680 | 100 | 125 | 8 | 0.027 | 3510 | 10000 |
| SL827M100HLORR | 820 | 100 | 125 | 8 | 0.026 | 3860 | 10000 |

Remark:

- 1. Specification are subject to change without notice should a safety or technical concern arise regarding the product ,please be sure to contact our sales Rep.
- The sizes in the above table are all general specifications. If you need other specifications, please contact us.
 2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

| Frequency (Hz) Coefficient Cap. (µF) | 120 | 1K | 10К | 100К |
|---|------|------|------|------|
| ≤270µF | 0.50 | 0.73 | 0.92 | 1.00 |
| 330~680μF | 0.55 | 0.77 | 0.94 | 1.00 |
| 820~1800μF | 0.60 | 0.80 | 0.96 | 1.00 |
| ≥2200µF | 0.70 | 0.85 | 0.98 | 1.00 |

Temperature Coefficient

| Ambient | 105 | 85 | ≤70 |
|------------------|-----|-----|-----|
| Temperature (°C) | | | |
| Coefficient | 1.0 | 1.5 | 2.0 |

Cutting The Feet Long

| Cutting Length Code | Cutting Length | | | |
|---------------------|----------------|--|--|--|
| | (mm) | | | |
| CA | 3.0±0.5 | | | |
| СВ | 3.5±0.5 | | | |
| СС | 4.0±0.5 | | | |
| CD | 4.5±0.5 | | | |
| CE | 5.0±0.5 | | | |
| CG | 6.0±0.5 | | | |
| And so on | | | | |

Note:

- The length of the product's cut feet starts from A=3.0mm.
 Every time it increases by 0.5mm.
- The English word is pushed forward one place, as shown in the table.



CHARACTERISTICS

Standard atmospheric conditions

The standard range of atmospheric conditions for making measurements/test as follows:

Ambient temperature: 15°C to 35°C

Relative humidity: 45% to 85%

Air Pressure: 86kPa to 106kPa

If there is any doubt about the results, measurement shall be made within the following conditions:

Ambient temperature: 20°C \pm 2°C

Relative humidity: 60% to 70%

Air Pressure: 86kPa to 106kPa

Operating temperature range

The ambient temperature range at which the capacitor can be operated continuously at rated voltage is

(6.3~100WV), -40~+105°C. As to the detailed information, please refer to following table.



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| ITEM | CHARACTERISTIC | S | | | | | | | |
|---------------------|---|------------|-------------|------------|-----------|------------|-----------|----------|------|
| Nominal Capacitance | <condition></condition> | | | | | | | | |
| (Tolerance) | Measuring Frequ | | | | | | | | |
| | Measuring Voltag | - | | 0.5V | | | | | |
| | Measuring Tempo | erature : | 20±2°C | | | | | | |
| | | o sposifi | ad capaci | tanco tol | oranco | | | | |
| | Shall be within th | e specific | eu capaci | | erance | | | | |
| Leakage Current | <condition></condition> | | | | | | | | |
| | After DC Voltage | is applied | d to capa | citors thr | ough the | e series p | rotective | resistor | |
| | (1k $\Omega\pm$ 10 Ω) so th | iat termii | nal voltag | ge may re | each the | reacted u | se voltag | e. | |
| | The leakage curre | ent when | measure | ed in 2 mi | inutes sh | all not ex | ceed the | values | |
| | of the following e | quation. | | | | | | | |
| | <criteria></criteria> | | | | | | | | |
| | I ≤0.01CV or 3 (μ/ | A) whiche | ever is gro | eater. | | | | | |
| | I: Leakage curren | t (µA) | | | | | | | |
| | C: Capacitance (µ | F) | | | | | | | |
| | V: Rated DC work | ing volta | ge (V) | | | | | | |
| tanδ | <condition></condition> | | | | | | | | |
| | See Nominal capa | acitance, | for meas | uring fre | quency , | voltage a | nd temp | erature | |
| | <criteria></criteria> | | | | | | | | |
| | Working | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | Voltage (V) | | | | | | | | |
| | tan δ (Max.) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |
| | For capacitance value >1000uF, add 0.02per another 1000uF | | | | | | | | |
| Rated Voltage (WV) | | | | | | | | | |
| Surge Voltage (SV) | WV (V.DC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | SV (V.DC) | 8.0 | 13 | 20 | 32 | 44 | 63 | 79 | 125 |

2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| ITEM | CHARACTERIS | STICS | | | | | |
|--------------------------------------|---|--------------------|--------------|----------------|---|----------------|--|
| Temperature | <condition></condition> | | | | | | |
| Characteristics | Step | Testing tempera | ature(°C) | Time | | | |
| IEC-60384-4 4.12 | 1 | 20±2 | | Time to r | each therma | al equilibrium | |
| | 2 | 2 -40(-25)± | | Time to r | each therma | al equilibrium | |
| | 3 | 3 20±2 | | Time to r | each therma | al equilibrium | |
| | 4 | 105±2 | 2 | Time to r | each therma | al equilibrium | |
| | 5 | 5 20±2 | | Time to r | each therma | al equilibrium | |
| | <criteria></criteria> | | | | | | |
| | • At +105°C | : capacitance me | easured sha | ll be within ± | 20% of its or | riginal value | |
| | at +20°C: 1 | tan δ shall be wit | hin the lim | it of tanδ, Th | e leakage cu | rrent value at | |
| | +105°C sh | all not more tha | n 8 times th | ne specified v | alue. | | |
| | - In step 5, tan δ shall be within the limit of tan $\delta,$ The leakage current shall not more | | | | | | |
| | than the specified value. | | | | | | |
| | • At -40 °C (-25 °C) : Impedance (Z) ratio shall not exceed the following value. | | | | | | |
| | Rated Vol | Rated Voltage (V) | | 10 | 16 | 25~100 | |
| | Z-25°C/ Z | +20°C | 4 | 3 | 2 | 2 | |
| | Z-40°C/ Z | +20°C | 8 | 6 | 4 | 3 | |
| Terminal Strength IEC-60384-4 4.4 | Capacitance, tan δ , and impedance shall be measured at 120Hz. <condition>Tensile strength of terminals. Fixed the capacitor, applied force to the terminal in out direction for 10 ± 1 seconds. Bending strength of terminals. Fixed the capacit applied force to bent the terminal (1~4 mm from the rubber) for 90° within 2~3 seconds, and then bent it for 90° to its original position within 2~3 Seconds, and then bent it for 90° to its original position within 2~3 Seconds, Diameter of lead wireDiameter of lead wireTensile force N (kgf)0.5mm and less5 (0.51)2.5 (0.25)</br></condition> | | | | ixed the capacitor, 10° n within 2~3 Second | | |
| | Over 0.5 | mm to 0.8mm | 1 | .0 (1.0) | | 5 (0.51) | |
| | <criteria> No noticeable</criteria> | e changes shall b | e found, no | o breakage or | looseness a | t the terminal | |

2/11/2025



PART CODE: **SL107M100HGHRR** DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| ITEM | CHARACTERISTICS | | | | | | |
|------------------------------------|--|-------------------------|---------------------|---------|--|--|--|
| Load Life Test IEC-60384-4 4.13 | <condition> According to IEC60384-4 No.4.13 methods, The capacitor is stored at a temperature of $105\pm2^{\circ}$ C with DC bias voltage plus the rated ripple current for the following table hours. (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) Then the product should be tested after 16 hours recovering time at atmospheric conditions. The result should meet the following table:</condition> | | | | | | |
| | Φ DX L | 6.3V | 10~50V | 63~100V | | | |
| | ≤ф6.3 | ≤¢6.3 6000H 7000H 6000H | | | | | |
| | φ8x12 | ф8х12 8000Н 9000Н 8000Н | | | | | |
| | φ10x12.5 | 8000~1000 | 00H | | | | |
| | φ8x16, φ8x20 | 8000~1000 | ЮН | | | | |
| | φ10x16, φ10x20, φ10x25, ≥φ12.5 | | | | | | |
| | <criteria> : The characteristic shall meet the following requirements.</criteria> | | | | | | |
| | Leakage current | Value in 4.2 | 2 shall be satisfie | ed | | | |
| | Capacitance Change Within \pm 30% of initial value | | | | | | |
| | tanδ Not more than 300% of the specified value. | | | | | | |
| | Appearance There shall be no leakage of electrolyte. | | | | | | |
| | | | | | | | |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| ITEM | CHARACTERISTICS | | | | | | |
|------------------|--|---|--|--|--|--|--|
| Shelf Life Test | <condition>:</condition> | | | | | | |
| IEC-60384-4 4.17 | The capacitors are then stored | d with no voltage applied at a temperature of $105\pm2^\circ C$ for | | | | | |
| | 1000+48/0 hours. Following the | nis period the capacitors shall be removed from the test | | | | | |
| | chamber and be allowed to st | abilized at room temperature for 4~8 hours. Next they | | | | | |
| | shall be connected to a series | limiting resistor(1k \pm 100 Ω) with D.C. rated voltage applied | | | | | |
| | for 30min. After which the cap | pacitors shall be discharged, and then, tested the | | | | | |
| | characteristics. | | | | | | |
| | <criteria> :</criteria> | | | | | | |
| | The characteristic shall meet t | he following requirements. | | | | | |
| | Leakage current Value in 4.2 shall be satisfied | | | | | | |
| | Capacitance Change Within \pm 30% of initial value | | | | | | |
| | tanδ Not more than 300% of the specified value. | | | | | | |
| | Appearance There shall be no leakage of electrolyte. | | | | | | |
| | Remark: | | | | | | |
| | If the capacitors are stored mo | ore than 1 year, the leakage current may increase. Please | | | | | |
| | apply voltage through about 1 | K Ω resistor, if necessary. | | | | | |
| Surge Test | <condition></condition> | | | | | | |
| IEC-60384-4. 4.9 | Test temperature:15~35°C; S | eries resistor: R= (100 \pm 50)/C | | | | | |
| | R: protective resistor (KΩ); C: | nominal capacitance (μF) | | | | | |
| | Test voltage: Surge voltage ite | | | | | | |
| | No. of cycles: 1000cycles Each | | | | | | |
| | "ON" for 30±5 s "OFF" for 5 | ±0.5min. | | | | | |
| | <criteria></criteria> | | | | | | |
| | Leakage current | Not more than the specified value | | | | | |
| | Capacitance Change | Within \pm 15% of initial value | | | | | |
| | tanδ | Not more than the specified value | | | | | |
| | Appearance There shall be no leakage of electrolyte. | | | | | | |
| | Attention: This test simulates | over voltage at abnormal situation, and not be | | | | | |
| | hypothesizing that over voltage | ge is always applied. | | | | | |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| ITEM | CHARACTERISTICS | | | | | |
|--------------------|---|--|--|--|--|--|
| Solderability Test | <condition></condition> | | | | | |
| IEC-60384-4 4.6 | The capacitor shall be tested under the following conditions: Soldering temperature : | | | | | |
| | 245±3°C; Dipping depth : 2mm ; Dipping speed : 25±2.5mm/s | | | | | |
| | Dipping time : 3±0.5s | | | | | |
| | <criteria> Coating quality : A minimum of 95% of the surface being immersed</criteria> | | | | | |
| Impedance | <condition></condition> | | | | | |
| | Measuring frequency:100kHz; | | | | | |
| | Measuring temperature:20±2°C | | | | | |
| | Measuring point: 2mm Max. from the surface of a sealing rubber on the lead wire. | | | | | |
| | <criteria></criteria> | | | | | |
| | (20°C)Less than the initial limit(See Point 5). | | | | | |
| Vibration Test | <condition></condition> | | | | | |
| IEC-60384-4.4.8 | The following conditions shall be applied for 2 hours in each 3 mutually perpendicula | | | | | |
| | directions. | | | | | |
| | Vibration frequency range : 10Hz ~ 55Hz; Peak to peak amplitude : 1.5mm | | | | | |
| | Sweep rate : 10Hz ~ 55Hz ~ 10Hz in about 1 minute | | | | | |
| | Mounting method: The capacitor with diameter greater than 12.5mm or longer than | | | | | |
| | 25mm must be fixed in place with a bracket. | | | | | |
| | 4mm or less Within 30° To be soldered | | | | | |
| | <criteria> After the test, the following items shall be tested:</criteria> | | | | | |
| | Inner No intermittent contacts, open or short circuiting. No damage | | | | | |
| | construction of tab terminals or electrodes | | | | | |
| | AppearanceNo mechanical damage in terminal. No leakage of electrolyteor swelling of the case. The markings shall be legible | | | | | |
| | | | | | | |

2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

| ITEM | CHARACTERISTICS | | | | | | |
|--|--|---|--|--|--|--|--|
| Resistance To | <condition></condition> | | | | | | |
| Solder Heat Test | Terminals of the capacitor sha | ll be immersed into solder bath at 260±5°C for10±1 | | | | | |
| IEC-60384-4 4.5 | seconds or 400±10°C for 3~4 | seconds to 1.5~2.0mm from the body of capacitor. Then | | | | | |
| | the capacitor shall be left und | er the normal temperature and normal humidity for 1~2 | | | | | |
| | hours before measurement. | | | | | | |
| | <criteria></criteria> | | | | | | |
| | Leakage current Not more than the specified value | | | | | | |
| | Capacitance Change Within \pm 10% of initial value | | | | | | |
| | tanδ Not more than the specified value | | | | | | |
| | Appearance There shall be no leakage of electrolyte. | | | | | | |
| Change Of Temperature Test IEC-60384-4 4.7 | | le: According to IEC60384-4 No.4.7 methods, capacitor | | | | | |
| | Temperature | Time | | | | | |
| | (1)+20°C | ≤ 3 Minutes | | | | | |
| | (2)-40°C | 30 ± 2 Minutes | | | | | |
| | (3)+105°C | 30±2 Minutes | | | | | |
| | (1) To (3) = 1 cycle, Total 5 | Cycles | | | | | |
| | <criteria> The characteristic shall meet the following requirement.</criteria> | | | | | | |
| | Leakage current Not more than the specified value. | | | | | | |
| | Tan δ | Not more than the specified value. | | | | | |
| | Appearance | There shall be no leakage of electrolyte. | | | | | |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

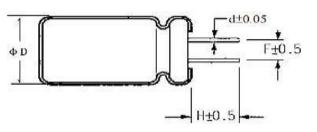
| ITEM | CHARACTERISTICS | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|
| Damp Heat Test IEC-60384-4 4.12 | <condition> Humidity test: According to IEC60384-4 No.4.12 methods, capacitor shall be exposed for 500±8 hours in an atmosphere of 90~95%R H .at 40±2°C, the characteristic change shall meet the following requirement. <criteria></criteria></condition> | | | | | | |
| | Leakage currentNot more than the specified value.Capacitance ChangeWithin $\pm 20\%$ of initial value | | | | | | |
| | tan δ Not more than 120% of the specified value. | | | | | | |
| | Appearance There shall be no leakage of electrolyte. | | | | | | |
| | | | | | | | |
| Vent Test IEC-60384-4 4.16 | <condition> The following test only apply to those products with vent products at diameter ≥Ø 6.3 with vent. D.C. test: The capacitor is connected with its polarity reversed to a DC power source. Then a current selected from Table 2 is applied. Diameter (mm) DC Current (A) 22.4 or less 1 Criteria> The vent shall operate with no dangerous conditions such as flames or dispersion of pieces of the capacitor and/or case.</condition> | | | | | | |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

FORMING DIMENSION - Unit : mm

Cutting Type



| Sh | nape Code | D | 5.0 | 6.3 | 8.0 | 10~13 | 16~18 |
|----|-----------|---|-----|-----|-----|-------|-------|
| | СВ | F | 2.0 | 2.5 | 3.5 | 5.0 | 7.5 |
| | Cutting- | н | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| | 3.5mm | d | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 |

| Shape Code | D | 5.0 | 6.3 | 8.0 | 10~13 | 16~18 |
|------------|---|-----|-----|-----|-------|-------|
| сс | F | 2.0 | 2.5 | 3.5 | 5.0 | 7.5 |
| Cutting- | н | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 4.0mm | d | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 |

| Shape Code | D | 5.0 | 6.3 | 8.0 | 10~13 | 16~18 |
|------------|---|-----|-----|-----|-------|-------|
| CD | F | 2.0 | 2.5 | 3.5 | 5.0 | 7.5 |
| Cutting- | Н | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 4.5mm | d | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 |

| Shape Code | D | 5.0 | 6.3 | 8.0 | 10~13 | 16~18 |
|------------|---|-----|-----|-----|-------|-------|
| CE | F | 2.0 | 2.5 | 3.5 | 5.0 | 7.5 |
| Cutting- | Н | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 5.0mm | d | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 |



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

TAPING DIMENSION - Unit : mm

| Item | Symbol | T2 | T2 TB | | Т3 | T5 | | |
|--|--------|-------------|---------|--------|---------|------|-------------|--|
| Taping Code | | | 1 | | Fig 1 | | | |
| Diameter | D | 5 | 6.3 | 8 | | 10 | 12.5/ 13 | |
| Height | L | 9~30 | | | | | | |
| Lead Diameter | d±0.05 | 0.5 0.5/0.6 | | | | 0 | .6 | |
| Component Spacing | P±1.0 | 12.7 | | | | | 15.0 | |
| Pitch of sprocket holes | P0±0.2 | 12.7 | | | | 15.0 | | |
| Distance between centers of terminal and the sprocket holes | P1±0.5 | 5.1 | | 4.6 | | 3.85 | | |
| Feed hole center to component center | P2±1.0 | | | 6.35 | | | | |
| Distance between centers of component leads | F±0.5 | 2.0 | 2.0 2.5 | | 3.5 | | 5.0 | |
| Carrier tape width | W±1.0 | 18 | | | | | | |
| Hold down tape width | W0 | 7 Min. | | | | | | |
| Distance between the center of upper edge of carrier tape and sprocket hole | W1±0.5 | 0.5 9 | | | | | | |
| Distance between the upper edges of the carrier tape and the hold down tape | W2 | | | 3 | .0 Max. | | | |
| Distance between the abscissa and the bottom of the components body | H±1.0 | 18.5 | | 20.0 1 | | 3.5 | | |
| Distance between the abscissa and the reference plane of the components with crimped leads | H0±0.5 | | | | | | | |
| Max. lateral deviation of the component body vertical to the tape plane | Δh | 2.0 Max. | | | | | | |
| End of lead | L1 | 0.5 Max. | | | | | | |
| Diameter of driving hole | D0 | 4.0±0.2 | | | | | | |
| Sun of thickness for mounting and adhesive tape without lead Diameter | t | | | 0 | .6±0.3 | | | |

2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

TAPING DIMENSION - Unit : mm

| Item Taping Code | Symbol | Т5 | T7 | | | | |
|--|--------|-----------|----------|----|--|--|--|
| Taping code | | | Fig 2 | | | | |
| Diameter | D | 12.5/13.0 | 16 | 18 | | | |
| Height | L | | | | | | |
| Lead Diameter | d±0.05 | 0.6 | 0.8 | 3 | | | |
| Component Spacing | P±1.0 | 25.4 | 25.4 | | | | |
| Pitch of sprocket holes | P0±0.2 | 12.7 | 12. | 7 | | | |
| Distance between centers of terminal and the sprocket holes | P1±0.5 | 3.85 | 3.7 | 5 | | | |
| Feed hole center to component center | P2±1.0 | 6.35 | 7.5 | 0 | | | |
| Distance between centers of component leads | F±0.5 | 5.0 | 7.5 | | | | |
| Carrier tape width | W±1.0 | | 18.0 | | | | |
| Hold down tape width | W0 | | 7.0 Min. | | | | |
| Distance between the center of upper edge of carrier tape and sprocket hole | W1±0.5 | 9.0 | | | | | |
| Distance between the upper edges of the carrier tape and the hold down tape | W2 | 3.0 Max. | | | | | |
| Distance between the abscissa and the bottom of the components body | H±1.0 | 18.5 | | | | | |
| Distance between the abscissa and the reference plane of the components with crimped leads | H0±0.5 | | / | | | | |
| Max. lateral deviation of the component body vertical to the tape plane | Δh | 2.0 Max. | | | | | |
| End of lead | L1 | 0.5 Max. | | | | | |
| Diameter of driving hole | D0 | 4.0±0.2 | | | | | |
| Sun of thickness for mounting and adhesive tape without lead Diameter | t | 0.6±0.3 | | | | | |

2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

TAPING DIMENSION - Unit : mm

| Item | Symbol | ТВ | T5 | ТВ | T5 | ТВ | T5 | |
|--|--------|----------|-------|-------|----------|-------|-------|--|
| Taping Code | | Fig 4 | Fig 3 | Fig 4 | Fig 3 | Fig 4 | Fig 3 | |
| Diameter | D | 4 | | | ļ | 5 | I | |
| Height | L | | 5, | /7 | | 9~12 | | |
| Lead Diameter | d±0.05 | 0.45 | | | 0.50 | | | |
| Component Spacing | P±1.0 | 12.7 | | | | | | |
| Pitch of sprocket holes | P0±0.2 | | 12.7 | | | | | |
| Distance between centers of terminal and the sprocket holes | P1±0.5 | 5.1 | 3.85 | 5.1 | 3.85 | 5.1 | 3.85 | |
| Feed hole center to component center | P2±1.0 | | 1 | 6. | 35 | I | 1 | |
| Distance between centers of component leads | F±0.5 | 2.5 | 5.0 | 2.5 | 5.0 | 3.5 | 5.0 | |
| Carrier tape width | W±1.0 | 18 | | | | | | |
| Hold down tape width | W0 | 7 Min. | | | | | | |
| Distance between the center of upper edge of carrier tape and sprocket hole | W1±0.5 | 9 | | | | | | |
| Distance between the upper edges of the carrier tape and the hold down tape | W2 | | | | 3.0 Max. | | | |
| Distance between the abscissa and the bottom of the components body | H±0.75 | 18.5 | 17.5 | 18.5 | 17.5 | 18.5 | 17.5 | |
| Distance between the abscissa and the reference plane of the components with crimped leads | H0±0.5 | / | 16.0 | / | 16.0 | / | 16.0 | |
| Max. lateral deviation of the component body vertical to the tape plane | Δh | 2.0 Max | | | Max. | 1 | 1 | |
| End of lead | L1 | 0.5 Max. | | | | | | |
| Diameter of driving hole | D0 | 4.0±0.2 | | | | | | |
| Sun of thickness for mounting and adhesive tape without lead Diameter | t | 0.6±0.3 | | | | | | |

2/11/2025



DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

TAPING DIMENSION - Unit : mm

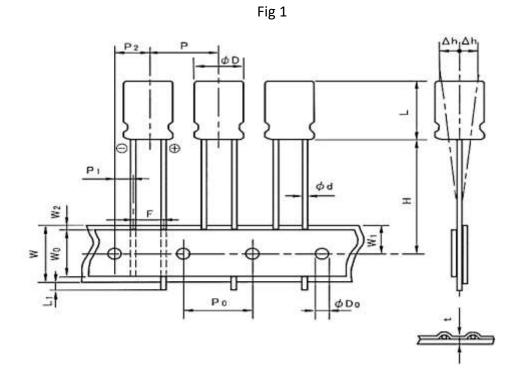
| Item Taping Code | Symbol | Т5 | | | | | | |
|--|--------|----------|------|------|------|------|-------|--|
| rahing cone | | Fig 3 | | | | | | |
| Diameter | D | 6.3 | | | | | | |
| Height | L | 5/7 | 9/12 | 5 | 7 | 9~19 | 20~25 | |
| Lead Diameter | d±0.05 | 0.45 | 0.50 | 0.45 | 0.45 | 0.50 | 0.60 | |
| Component Spacing | P±1.0 | 12.7 | | | | | 0 | |
| Pitch of sprocket holes | P0±0.2 | | | 12 | 2.7 | | | |
| Distance between centers of terminal and the sprocket holes | P1±0.5 | 3.85 4.6 | | | 4.6 | | | |
| Feed hole center to component center | P2±1.0 | | | 6. | 35 | | | |
| Distance between centers of component leads | F±0.5 | 5.0 | | | | | | |
| Carrier tape width | W±1.0 | 18 | | | | | | |
| Hold down tape width | W0 | 7 Min. | | | | | | |
| Distance between the center of upper edge of carrier tape and sprocket hole | W1±0.5 | 9 | | | | | | |
| Distance between the upper edges of the carrier tape and the hold down tape | W2 | 3.0 Max. | | | | | | |
| Distance between the abscissa and the bottom of the components body | H±0.75 | 17.5 20 | | | | | | |
| Distance between the abscissa and the reference plane of the components with crimped leads | H0±0.5 | 16.0 | | | | | | |
| Max. lateral deviation of the component body vertical to the tape plane | Δh | 2.0 Max. | | | | | | |
| End of lead | L1 | 0.5 Max. | | | | | | |
| Diameter of driving hole | D0 | 4.0±0.2 | | | | | | |
| Sun of thickness for mounting and adhesive tape without lead Diameter | t | 0.6±0.3 | | | | | | |

2/11/2025

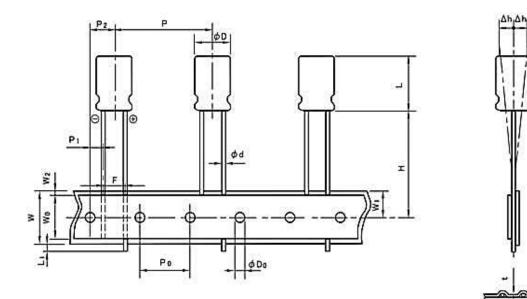


PART CODE: **SL107M100HGHRR** DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

STRAIGHT FOOT BRAID







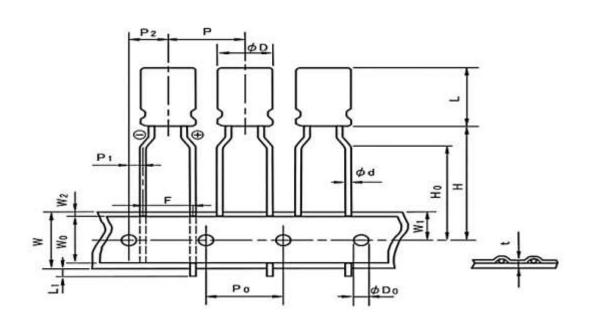
2/11/2025



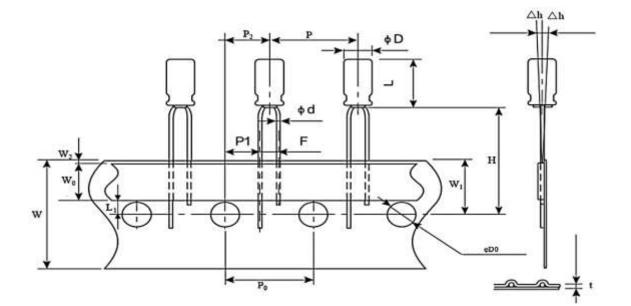
PART CODE: **SL107M100HGHRR** DIP CAPACITORS ALUMINUM ELECTROLYTIC SL SERIES

ENLARGE THE FOOT BRAID

Fig 3







sales@NextGenComponent.com



ATTENTION

When using Aluminum Electrolytic Capacitor, please pay attention to the points listed below. If the following types of electrical loads are applied to Aluminum Electrolytic Capacitor, rapid deterioration of electrical property occurs:

- Reverse voltage
- Overvoltage exceeding rated working voltage
- Current exceeding rated ripple current
- Severe charging/discharging

At such times, severe heat is generated, gas is emitted ,then electrolyte leaks from the sealed area, and pressure relief vent operates due to increase of internal pressure. In the worst case, explosion or ignition may occur, and along with destruction of the capacitor combustibles may burst out.

CAUTION DURING CIRCUIT DESIGN

- Operational environments, mounting environment and conditions. Ensure that operational and mounting conditions follow the specified conditions detailed in the catalog and specification sheets
- 2. Operating temperature, ripple current and load life. Operating temperature and applied ripple current should be within the specified value in the catalog or specification sheets. Do not use Aluminum Electrolytic Capacitors at temperature which exceeds the specified category temperatures range. Do not apply excessive current to the capacitors, which exceeds the specified rated ripple current. During circuit design ,please ensure that capacitors are selected to match with the lifetime requirements of the application
- 3. Application: Aluminum Electrolytic Capacitors are normally polarized .Reverse voltage or AC Voltage should not be applied. When polarity may flip over, non-polar type should be used, but the non-polar type cannot be used for AC. Standard Aluminum Electrolytic Capacitors are not suitable for rapid charge and discharge applications. Group in your area about specialty signed capacitors for rapid charge and discharge.
- 4. Applied Voltage: Do not exceed the rated voltage of capacitors



- 5. Insulation: Aluminum Electrolytic Capacitors should be electrically isolated from the following. Aluminum case, cathode lead wire, anode lead wire and circuit pattern; Auxiliary terminals of snap-in type, anode terminal, outward terminals and circuit pattern. The PVC sleeve of Aluminum Electrolytic Capacitors is not recognized as an insulator, and therefore ,the standard capacitor should not be used in a place where insulation function is needed. Please consult with NextGen Components, Inc. if you require a higher grade of insulating sleeve.
- 6. Conditions of use: The following environments should be avoided when suing Aluminum Electrolytic Capacitors. Damp conditions such as water ,salt water or oil spray or fumes, high humidity or humidity condensation situations. Hazardous gas/fumes such as hydrogen sulfide, sulfurous acid gas, nitrous acid, chlorine gas, ammonia or bromine gas; Exposure of ozone ,ultraviolet rays or radiation; Severe vibration or shock which exceeds the condition specified in the catalog or specification sheet.
- 7. Consideration to assembly condition: In designing a circuit ,the following matters should be ensured in advance to the capacitor's assembly on the printed circuit board (PC board) Design the appropriate hole spacing to match the lead pitch of capacitors; Do not locate any wiring and circuit patterns directly above the capacitor's vent; Ensure enough free space above the capacitor's vent. The recommended space is specified in the catalog or specification sheets; In case the capacitor's vent is facing the PC board, make a gas release hole on PC board. The sealing side of the screw terminal type should not face down in the application. When the capacitors are mounted horizontally, the anode screw terminals must be positioned at upper side.
- Consideration to circuit design: Any copper lines or circuit patterns should not be laid under the capacitor;
 Parts which radiate heat should not be placed close to the reverse side of the Aluminum Electrolytic
 Capacitors on the PC board.



9. Others

Performance of electrical characteristics of Aluminum Electrolytic Capacitors is affected by variation of operating temperature and frequency. Consider this variation when designing the circuit. Excessive holes and connection hole between both sides on the PC board should be avoided around or under the mounting area of the Aluminum Electrolytic Capacitors on double sided or multilayer PC board. Torque of tightening screw terminals should not exceed the specified maximum value which is described in the catalog and specification sheets . Consider current balance when 2 or more Aluminum Electrolytic Capacitors are connected in parallel. Use bleeding resistors when 2 or more Aluminum Electrolytic Capacitors are connected in series .In this case, the resistors should be connected parallel to the capacitors.

CAUTION FOR ASSEMBLING CAPACITORS

- Caution before assembly : Aluminum Electrolytic Capacitors cannot be recycled after mounting and applying electricity in unit. The capacitors, which are removed from PC board for the purpose of measuring electrical characteristics at the periodical inspection, should only be recycled for the same position.; Aluminum Electrolytic Capacitors may accumulate charge naturally during storage. In this case, discharge through a 1KOHM resistor before use; Leakage current of Aluminum Electrolytic Capacitors may be increased during long storage time. In this case, the capacitors should be subject to voltage treatment through a 1KOHM resistor before use.
- In the assembly process-1: Ensure rated voltage and capacitance of the capacitors before mounting; Ensure capacitors polarity before mounting; Do not use a capacitor which has been dropped onto a hard surface; Do not use a capacitor with damaged or dented cased or seals.
- 3. In the assembly process-2: Capacitors should be mounted after confirmation that hole spacing on PC board matches the lead pitch of the capacitors; The snap-in type of capacitors should be mounted firmly on the PC board without a gap between the capacitor body and the surface of PC board;. Avoid excessive force when clinching lead wire during auto-insertion process; Avoid excessive shock to capacitors by automatic inserting machine, during mounting, parts inspection or centering operations; Please utilize supporting material such as strap of adhesive to mount capacitors to PC board when it is anticipated that vibration or shock is applied.

2/11/2025



- 4. Soldering: Soldering conditions (temperature and time)should be within the specified conditions which are described in the catalog or specification sheets; In case lead wire reforming is needed due to inappropriate pitch between capacitor and holes on PC board, stress to the capacitor should be avoided; In case of maintenance by soldering iron, if it is required to detach the capacitor, it should be removed from PC board after solder has melted sufficiently in order to reduce stress on the lead wires/terminals of the capacitor; Soldering iron should never touch the capacitor's body.
- 5. Flow soldering: Do not dip capacitor's body into melted solder. It should only be soldered on the reverse side of the PC board on which the capacitors are mounted; Soldering condition (preheat, soldering temperature, dipping time)should be within the specified standard which is described in the catalog or specification sheets; Flux should not be adhered to capacitor's body but only to its terminals; Other devices which are mounted close to capacitors should not touch the capacitors.
- 6. Reflow soldering: Reflow soldering conditions(preheat, soldering, temperature, reflow time)should follow the specified standard which is described in the catalog or specification sheets; Heating standard should depend on surface of the capacitor color or materials when infrared rays are used because the capacitor's heat absorption depends on the surface color or materials. Check heat condition; Standard Aluminum Electrolytic Capacitors cannot withstand two or more reflow processes.
- 7. Handling after soldering: Do not bend or twist the capacitor's body after soldering on PC board; Do not pickup or move PC board by holding the soldered capacitors; Do not hit the capacitors and isolate capacitors from the PC board or other device when stacking PC boards in store.
- PC board cleaning: Standard Aluminum Electrolytic Capacitors should be free from halogenated solvents during PC board cleaning after soldering
- 9. Adhesives and coating materials: Do not use halogenated adhesives and coating materials to fix Aluminum Electrolytic Capacitors; Flux between the surface of the PC board and sealing of capacitors should be cleaned before using adhesives or coating materials; Solvents should be dried up before using adhesives or coating materials; Do not cover up all the sealing area of capacitors with adhesives or coating materials, make coverage only partial.

2/11/2025



CAUTION DURING USE OF CAPACITORS IN SETS

- 1. Do not touch the terminals of capacitors;
- 2. Do not connect electrical terminals of the capacitors. Keep the capacitors free from conductive solution, such as acid, alkali and so on;
- 3. Ensure the operational environment of the equipment in which the capacitor has been built is within the specified condition mentioned in the catalog or specification sheets.

MAINTENANCE

- Periodical inspection should be carried out for the capacitors, which are used with industrial equipment. Check the following points at the inspection.
- 2. Visual inspection to check pressure relief vent open or leakage of electrolyte.
- Electrical characteristics: leakage current, capacitance, dissipation factor and the other points which are mentioned in the catalog or specification sheets.

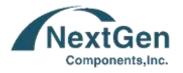
EMERGENCY ACTION

- If the pressure relief vent is open and some gas blows out from the capacitor, turn the main switch of the equipment off or pull out the plug from the power outlet immediately.
- 2. During pressure relief vent operation, extremely hot gas (over 100°C)may blow out from the vent area of the capacitors. So keep your face and skin away from capacitors during its operation. In case of eye contact, flush the open eye(s)with large amount of clean water immediately. In case of ingestion, gargle with water immediately, and do not swallow .Also do not touch electrolyte but wash skin with soap and water in case of skin contact.

STORAGE CONDITIO

- Aluminum Electrolytic Capacitors should not be stored in high temperature or in high humidity. The suitable storage condition is 5°C-35°C, and less than 75% in relative humidity;
- 2. Aluminum Electrolytic Capacitors should not be stored in damp conditions such as water, salt water spray or oil spray.

2/11/2025



- 3. Do not store Aluminum Electrolytic Capacitors in an environment full of hazardous gas (hydrogen sulfide gas, sulfurous acid gas, nitrous acid, chlorine gas, ammonia or bromine gas.
- 4. Aluminum Electrolytic Capacitors should not be stored under exposure to ozone ,ultraviolet rays or radiation.
- After one year, a capacitor should be reconditioned by applying rated voltage in series with a 1000Ω current limiting resistor for a time period of 30 minutes.

DISPOSAL

Please take either of the following actions in case of disposal. Incineration (high temperature of more than 800°C) after crushing the capacitor's body; Consignment to specialists of industrial waste.



IMPORTANT NOTES AND DISCLAIMER

- ROHS COMPLIANCE: The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained at Download Center.
- REACH COMPLIANCE: REACH substances of high concern (SVHCs) information is available for this product.
 Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
- All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
- 4. NextGen Component, Inc (*NextGen*) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- 5. NextGen makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does NextGen assume any liability for application assistance or customer product design.
- 6. NextGen does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application. No license is granted by implication or otherwise under any intellectual property rights of NextGen.
- 7. NextGen products are not authorized for use as critical components in life support devices or systems without express written approval by NextGen.
- 8. NextGen requires that customers first obtain an RMA (Returned Merchandise Authorization) number prior to returning any products. Returns must be made within 30 days of the date of invoice, be in the original packaging, unused and like-new condition. At the time of quoting or purchasing, a product may say that it is Non-Cancelable/ Non-Returnable (NCNR). These products are not returnable and not refundable.