# ELECTROLYTIC CAPACITORS 東信工業株式会社

## ●基板自立形 85℃品

## LGAシリーズ

JIS C 5101
CE-69

## ●SNAP-IN TERMINAL TYPE 85℃ USE

## TYPE LGA

JIS C 5101
CE-69

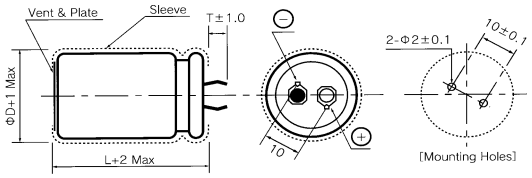
### ■特 徴

・プリント基板自立形構造の大容量電解コンデンサ
・85℃ 3,000時間を保証。
・基板洗浄タイプではありません。

### ■FEATURES

・This product is a large capacitanceelectrolytic capacitor having a printed circuit boad snap-in terminal structure.
・This product is the guaranteed service life of 3,000 hours at 85℃.
・Not washable product.

### ■寸法図/DIAGRAM OF DIMENSIONS




### ■性 能/PERFORMANCE SPECIFICATIONS

| | | |
|---|---|---|
| カテゴリ温度範囲 | CATEGORY TEMPERATURE RANGE | -25 ～ +85℃ |
| 標準静電容量許容差 | STANDARD CAPACITANCE TOLERANCE | -20 ～ +20% |
| 漏れ電流（最大値） | LEAKAGE CURRENT(MAX.VALUE) | I=0.02CV OR 3mA WHICHEVER IS THE smaller (after 5 minutes)　C=RATED CAPACITANCE(μF) V=WORKING VOLTAGE(V) |
| 損失角の正接（最大値）(tanδ) | DISSIPATION FACTOR(MAX.VALUE) (tanδ) | W.V 200 250 400 420 450<br>tanδ 0.22 0.19 0.16 0.14 0.12<br>When the capacitance exceed 1,000μF,the value of tanδ is increased by 0.02 for each increment of 1,000μF or its fraction. |
| 耐久性 85℃ 3,000時間 定格使用電圧印加 | ENDURANCE APPLICATION OF RATED OPERATING VOLTAGE,AT 85℃ FOR 3,000HOURS. | Capacitance Change: Within ±20% of the initial value<br>Dissipation Factor: Less than 200% of the initial specification value<br>Leakage Current: Less than the initial specification value |
| 高温無負荷特性 電圧を印加しないで 85℃ 1,000時間放置 | ENDURANCE APPLICATION OF WITHOUT VOLTAGE AT 85℃ FOR 1,000HOURS. | Capacitance Change: Within ±20% of the initial value<br>Dissipation Factor: Less than 200% of the initial specification value<br>Leakage Current: Less than 200% of the initial specification value |
| その他の特性はJIS C 5101-4に準ずる | THE OTHER CHARACTERISTICS | THE OTHER CHARACTERISTICS ARE BASED ON JIS C 5101-4. |

### ■定格リプル電流補正係数

リプル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。
When the ripple frequency differs from the spicification shown in the list of standard products, multiply the value with the coefficient shown below, and use the products under the obtained value.

**周波数補正係数/FREQUENCY CORRECTION FACTOR**

| Rated Voltage Vdc | Frequency (Hz) | | | | |
|---|---|---|---|---|---|
| | 60 | 120 | 300 | 1k | 10k |
| 200～250 | 0.80 | 1.00 | 1.15 | 1.17 | 1.20 |
| 400～450 | 0.77 | 1.00 | 1.10 | 1.12 | 1.15 |

### ■品番ご指定法／HOW TO SPECIFY ITEM NUMBER

2D LGA 681 M 6 P 35

- 35 — Pruducts length : 35=35L
- P — Products diameter : P=φ25
- 6 — Terminal length : 4.0mm=6, 6.3mm=7
- M — Capacitance tolerance : M･･･±20%
- 681 — Capacitance symbol : 681･･･680μF
- LGA — Series name : LGA series
- 2D — Rated voltage : 2D･･･200Vdc

■寸法表／CASE SIZE TABLE

■Ripple Current [Max. value A] at 85℃ 120Hz

| Cap. (μF) | 200Vdc | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | |
| | φD×L | RC | φD×L | RC | φD×L | RC | φD×L | RC |
| 270 | 22×25 | 1.25 | | | | | | |
| 330 | 22×25 | 1.32 | | | | | | |
| 390 | 22×30 | 1.51 | 25×25 | 1.56 | | | | |
| 470 | 22×30 | 1.73 | 25×30 | 1.78 | | | | |
| 560 | 22×35 | 1.91 | 25×30 | 1.96 | 30×25 | 1.96 | | |
| 680 | 22×40 | 2.17 | 25×35 | 2.26 | 30×30 | 2.27 | | |
| 820 | 22×45 | 2.45 | 25×40 | 2.54 | 30×30 | 2.53 | | |
| 1000 | 22×55 | 2.88 | 25×45 | 2.99 | 30×35 | 2.87 | | |
| 1200 | | | 25×50 | 3.29 | 30×40 | 3.28 | 35×35 | 3.25 |
| 1500 | | | | | 30×50 | 3.76 | 35×40 | 3.71 |
| 1800 | | | | | 30×55 | 4.20 | 35×45 | 4.19 |
| 2200 | | | | | | | 35×50 | 4.78 |

| Cap. (μF) | 250Vdc | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | |
| | φD×L | RC | φD×L | RC | φD×L | RC | φD×L | RC |
| 220 | 22×30 | 1.13 | | | | | | |
| 270 | 22×30 | 1.37 | | | | | | |
| 330 | 22×35 | 1.52 | 25×30 | 1.47 | | | | |
| 390 | 22×40 | 1.72 | 25×35 | 1.72 | | | | |
| 470 | 22×45 | 1.96 | 25×40 | 1.96 | 30×30 | 1.86 | | |
| 560 | 22×50 | 2.27 | 25×45 | 2.14 | 30×35 | 2.14 | | |
| 680 | | | 25×50 | 2.44 | 30×40 | 2.47 | | |
| 820 | | | | | 30×45 | 2.72 | 35×35 | 2.70 |
| 1000 | | | | | 30×50 | 3.24 | 35×40 | 3.18 |
| 1200 | | | | | | | 35×50 | 3.50 |

| Cap. (μF) | 400Vdc | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | |
| | φD×L | RC | φD×L | RC | φD×L | RC | φD×L | RC |
| 82 | 22×25 | 0.76 | | | | | | |
| 100 | 22×30 | 0.90 | | | | | | |
| 120 | 22×30 | 1.00 | 25×25 | 1.03 | | | | |
| 150 | 22×35 | 1.13 | 25×30 | 1.16 | | | | |
| 180 | 22×40 | 1.29 | 25×35 | 1.32 | 30×25 | 1.38 | | |
| 220 | 22×45 | 1.44 | 25×40 | 1.50 | 30×30 | 1.52 | | |
| 270 | | | 25×45 | 1.63 | 30×35 | 1.66 | | |
| 330 | | | 25×50 | 1.82 | 30×40 | 1.87 | 35×30 | 1.87 |
| 390 | | | | | 30×45 | 2.06 | 35×35 | 2.08 |
| 470 | | | | | 30×50 | 2.28 | 35×40 | 2.31 |
| 560 | | | | | | | 35×45 | 2.60 |
| 680 | | | | | | | 35×50 | 2.83 |

| Cap. (μF) | 420Vdc | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | |
| | φD×L | RC | φD×L | RC | φD×L | RC | φD×L | RC |
| 82 | 22×25 | 0.78 | | | | | | |
| 100 | 22×30 | 0.88 | 25×25 | 0.89 | | | | |
| 120 | 22×30 | 0.98 | 25×30 | 0.99 | | | | |
| 150 | 22×35 | 1.10 | 25×30 | 1.15 | 30×25 | 1.19 | | |
| 180 | 22×40 | 1.21 | 25×35 | 1.30 | 30×30 | 1.35 | | |
| 220 | | | 25×40 | 1.44 | 30×35 | 1.51 | | |
| 270 | | | | | 30×40 | 1.74 | 35×30 | 1.77 |
| 330 | | | 25×55 | 2.01 | 30×45 | 1.80 | 35×35 | 1.98 |
| 390 | | | | | 30×50 | 2.03 | 35×40 | 2.07 |
| 470 | | | | | 30×55 | 2.28 | 35×45 | 2.38 |
| 560 | | | | | | | 35×50 | 2.69 |

| Cap. (μF) | 450Vdc | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | |
| | φD×L | RC | φD×L | RC | φD×L | RC | φD×L | RC |
| 68 | 22×25 | 0.64 | | | | | | |
| 82 | 22×25 | 0.79 | | | | | | |
| 100 | 22×30 | 0.86 | 25×25 | 0.88 | | | | |
| 120 | 22×35 | 0.98 | 25×30 | 1.00 | 30×25 | 1.02 | | |
| 150 | 22×40 | 1.08 | 25×35 | 1.13 | 30×25 | 1.18 | | |
| 180 | 22×45 | 1.20 | 25×40 | 1.28 | 30×30 | 1.32 | | |
| 220 | | | 25×45 | 1.45 | 30×35 | 1.50 | 35×30 | 1.46 |
| 270 | | | 25×50 | 1.57 | 30×40 | 1.73 | 35×30 | 1.73 |
| 330 | | | | | 30×45 | 1.93 | 35×35 | 1.96 |
| 390 | | | | | 30×50 | 2.17 | 35×40 | 2.17 |
| 470 | | | | | | | 35×45 | 2.45 |
| 560 | | | | | | | 35×50 | 2.63 |

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