

パワーエレクトロニクス用プラスチックフィルムコンデンサ

MLC形 (円筒形メタライズドポリプロピレンフィルムコンデンサ)

特長

- 風力発電、太陽光発電などの各種インバータ、チョッパ制御、充放電に最適な大容量円筒形コンデンサです。
- 保安機構付き蒸着フィルムを採用しており、耐圧信頼性の高いコンデンサです。
- オプションにてUL810適合品対応可 (シリーズ名: MLCU)

製品仕様

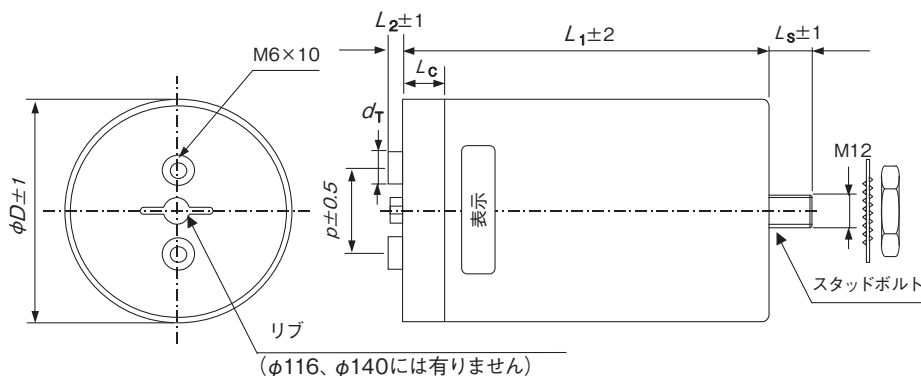
| 項目 | 仕様 |
|----------------------|--------------------------|
| 使用温度範囲 | -40 ~ +85°C at 0.7 U_N |
| | -40 ~ +80°C at 0.8 U_N |
| | -40 ~ +75°C at 0.9 U_N |
| | -40 ~ +70°C at 1.0 U_N |
| 定格電圧 U_N | 900 ~ 1,500V.DC |
| 試験電圧 (端子間) U_{TT} | 1.5 × U_N / 10s |
| 試験電圧 (T-C間) U_{TC} | 3,200V.AC / 10s |
| 端子 (締付トルク) | M6 × 10 (4 ± 0.5Nm) |
| スタッドボルト (締付トルク) | M12 × 16 / 18 (7 ± 1Nm) |
| 関連規格 | IEC 61071 : 2007 |
| 誘電体 | ポリプロピレン |
| 静電容量許容差 | ±10% (オプションで±5%も可能) |
| 安全機構 | 保安機構付き蒸着フィルム |
| 蓋 | UL94V-0 |
| 注型樹脂 | UL94V-0 |
| ケース | アルミニウム |
| 環境対応 | RoHS対応品 |

| | | φD | | | | |
|-------------|------------|--------|--------|--------|--------|---------|
| | | φ85 | φ88.5 | φ100 | φ116 | φ140 |
| 各部寸法 (mm) | P | 32 | 32 | 32 | 50 | 50 |
| | ϕd_T | φ12 | φ12 | φ12 | φ14 | φ19 |
| | L_2 | 5 | 5 | 5 | 5 | 5 |
| | L_C | 15 | 15 | 15 | 20 | 20 |
| | L_S | 16 | 16 | 16 | 18 | 18 |
| 絶縁空間距離 (mm) | | 20 | 20 | 20 | 36 | 31 |
| 絶縁沿面 (mm) | | 28 | 28 | 28 | 36 | 31 |
| 端子許容電流 | | 60Arms | 60Arms | 60Arms | 80Arms | 100Arms |

許容リップル電流補正係数

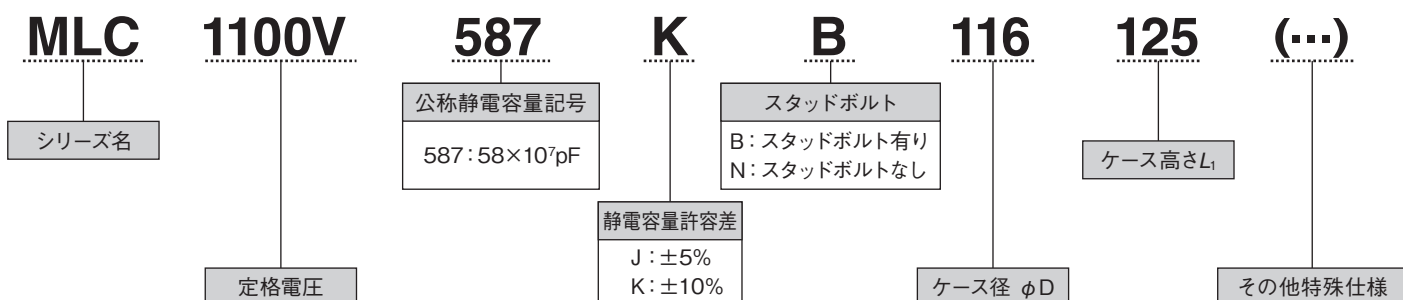
| | | 0.7 × U_N | 0.8 × U_N | 0.9 × U_N | 1.0 × U_N |
|------------|------|-------------|-------------|-------------|-------------|
| 周囲温度 T_a | 50°C | 1.73 | 1.58 | 1.41 | 1.22 |
| | 60°C | 1.58 | 1.41 | 1.22 | 1.00 |
| | 70°C | 1.22 | 1.00 | 0.70 | 0.00 |
| | 75°C | 1.00 | 0.70 | 0.00 | |
| | 80°C | 0.70 | 0.00 | | |
| | 85°C | 0.00 | | | |

形状および外形寸法



製品記号

例: MLC, 1100V, 580μF, ±10%, D = φ116, L1 = 125, スタッドボルト有り
MLC1100V587KB116125



PLASTIC FILM CAPACITORS

■標準品定格表

| 定格電圧 $U_N: 900V.DC$ | | 試験電圧 (T-T間) $U_{TT}: 1,350V.DC/10s$ 試験電圧 (T-C間) $U_{TC}: 3,200V.AC/10s$ | | | | | |
|------------------------------------|-----------------------|---|---|---|-------------------------------------|-----------------------------------|--------------------|
| 公称 静電容量 C_N (μF) | 寸法 | | 許容リップル電流 I_{max}^* (Arms / at60°C, 1k~10kHz) | 等価直列抵抗 (代表値) ESR (m Ω) | 内部インダクタンス (代表値) ESL (nH) | 熱抵抗 (代表値) R_{th} (K/W) | 製品記号 |
| | 径 ϕD (mm) | ケース高さ L_1 (mm) | | | | | |
| 180 | 85 | 70 | 20 | 2.9 | 60 | 8.4 | MLC900V187KB8570 |
| 200 | 85 | 75 | 20 | 3.1 | 65 | 7.9 | MLC900V207KB8575 |
| 210 | 88.5 | 70 | 22 | 2.6 | 60 | 7.8 | MLC900V217KB88570 |
| 230 | 85 | 80 | 20 | 3.3 | 65 | 7.4 | MLC900V237KB8580 |
| | 88.5 | 75 | 22 | 2.8 | 65 | 7.7 | MLC900V237KB88575 |
| 250 | 88.5 | 80 | 22 | 3.1 | 65 | 7.0 | MLC900V257KB88580 |
| 260 | 85 | 87 | 20 | 3.7 | 75 | 6.8 | MLC900V267KB8587 |
| 270 | 100 | 70 | 26 | 2.2 | 60 | 6.5 | MLC900V277KB10070 |
| 280 | 88.5 | 87 | 21 | 3.4 | 75 | 6.8 | MLC900V287KB88587 |
| 290 | 85 | 95 | 19 | 4.1 | 80 | 6.4 | MLC900V297KB8595 |
| 300 | 100 | 75 | 26 | 2.3 | 65 | 6.1 | MLC900V307KB10075 |
| 320 | 88.5 | 95 | 21 | 3.8 | 80 | 6.1 | MLC900V327KB88595 |
| 330 | 85 | 106 | 19 | 4.8 | 90 | 5.6 | MLC900V337KB85106 |
| | 100 | 80 | 25 | 2.5 | 65 | 5.9 | MLC900V337KB10080 |
| 360 | 88.5 | 106 | 20 | 4.4 | 90 | 5.7 | MLC900V367KB885106 |
| 370 | 85 | 125 | 37 | 1.5 | 40 | 4.8 | MLC900V377KB85125 |
| | 100 | 87 | 25 | 2.8 | 75 | 5.4 | MLC900V377KB10087 |
| 380 | 116 | 70 | 30 | 1.7 | 60 | 6.0 | MLC900V387KB11670 |
| 390 | 85 | 120 | 18 | 5.5 | 100 | 5.2 | MLC900V397KB85120 |
| 410 | 85 | 135 | 37 | 1.6 | 40 | 4.5 | MLC900V417KB85135 |
| | 116 | 75 | 30 | 1.9 | 65 | 5.6 | MLC900V417KB11675 |
| 420 | 88.5 | 125 | 40 | 1.4 | 40 | 4.5 | MLC900V427KB885125 |
| | 100 | 95 | 24 | 3.1 | 80 | 5.4 | MLC900V427KB10095 |
| 430 | 88.5 | 120 | 20 | 5.1 | 100 | 4.9 | MLC900V437KB885120 |
| 460 | 85 | 145 | 37 | 1.7 | 45 | 4.1 | MLC900V467KB85145 |
| | 88.5 | 135 | 40 | 1.5 | 40 | 4.2 | MLC900V467KB885135 |
| | 116 | 80 | 30 | 2.0 | 65 | 5.2 | MLC900V467KB11680 |
| 480 | 100 | 106 | 24 | 3.5 | 90 | 4.7 | MLC900V487KB100106 |
| 510 | 88.5 | 145 | 40 | 1.6 | 45 | 4.0 | MLC900V517KB885145 |
| 520 | 85 | 159 | 37 | 1.9 | 50 | 3.8 | MLC900V527KB85159 |
| | 116 | 87 | 30 | 2.2 | 75 | 5.0 | MLC900V527KB11687 |
| 540 | 100 | 125 | 47 | 1.1 | 40 | 3.9 | MLC900V547KB100125 |
| 560 | 100 | 120 | 23 | 4.1 | 100 | 4.3 | MLC900V567KB100120 |
| | 88.5 | 159 | 40 | 1.8 | 50 | 3.6 | MLC900V577KB885159 |
| 570 | 140 | 70 | 33 | 1.4 | 60 | 6.6 | MLC900V577KB14070 |
| | 85 | 175 | 37 | 2.1 | 55 | 3.4 | MLC900V597KB85175 |
| 590 | 116 | 95 | 30 | 2.4 | 80 | 4.5 | MLC900V597KB11695 |
| | 100 | 135 | 47 | 1.2 | 40 | 3.6 | MLC900V607KB100135 |
| 630 | 140 | 75 | 33 | 1.4 | 65 | 6.6 | MLC900V637KB14075 |
| 650 | 88.5 | 175 | 40 | 2.0 | 55 | 3.2 | MLC900V657KB885175 |
| 660 | 85 | 197 | 36 | 2.5 | 60 | 3.0 | MLC900V667KB85197 |
| | 116 | 106 | 29 | 2.8 | 90 | 4.2 | MLC900V667KB116106 |
| 670 | 100 | 145 | 46 | 1.3 | 45 | 3.5 | MLC900V677KB100145 |
| 700 | 140 | 80 | 33 | 1.6 | 65 | 5.8 | MLC900V707KB14080 |
| 730 | 88.5 | 197 | 39 | 2.3 | 60 | 2.9 | MLC900V737KB885197 |
| 750 | 100 | 159 | 46 | 1.5 | 50 | 3.2 | MLC900V757KB100159 |
| 760 | 116 | 125 | 55 | 0.9 | 40 | 3.5 | MLC900V767KB116125 |
| 780 | 85 | 225 | 35 | 2.9 | 70 | 2.7 | MLC900V787KB85225 |
| | 116 | 120 | 29 | 3.2 | 100 | 3.6 | MLC900V787KB116120 |
| | 140 | 87 | 32 | 1.7 | 75 | 5.4 | MLC900V787KB14087 |
| 830 | 116 | 135 | 55 | 1.0 | 40 | 3.3 | MLC900V837KB116135 |
| 850 | 100 | 175 | 46 | 1.6 | 55 | 2.8 | MLC900V857KB100175 |
| 870 | 88.5 | 225 | 39 | 2.6 | 70 | 2.6 | MLC900V877KB885225 |
| 890 | 140 | 95 | 32 | 1.9 | 80 | 5.1 | MLC900V897KB14095 |
| 930 | 116 | 145 | 55 | 1.1 | 45 | 3.1 | MLC900V937KB116145 |
| 960 | 100 | 197 | 45 | 1.9 | 60 | 2.5 | MLC900V967KB100197 |
| 1,000 | 116 | 159 | 54 | 1.2 | 50 | 2.8 | MLC900V108KB116159 |
| | 140 | 106 | 32 | 2.1 | 90 | 4.8 | MLC900V108KB140106 |
| 1,100 | 100 | 225 | 45 | 2.2 | 70 | 2.2 | MLC900V118KB100225 |
| | 116 | 175 | 53 | 1.4 | 55 | 2.5 | MLC900V118KB116175 |
| | 140 | 120 | 30 | 2.5 | 100 | 4.2 | MLC900V118KB140120 |
| | 140 | 125 | 58 | 0.8 | 40 | 3.8 | MLC900V118KB140125 |
| 1,200 | 140 | 135 | 58 | 0.8 | 40 | 3.8 | MLC900V128KB140135 |
| 1,300 | 116 | 197 | 53 | 1.5 | 60 | 2.3 | MLC900V138KB116197 |
| 1,400 | 140 | 145 | 58 | 0.8 | 45 | 3.7 | MLC900V148KB140145 |
| 1,500 | 116 | 225 | 52 | 1.8 | 70 | 2.0 | MLC900V158KB116225 |
| | 140 | 159 | 58 | 0.9 | 50 | 3.4 | MLC900V158KB140159 |
| 1,700 | 140 | 175 | 57 | 1.0 | 55 | 3.2 | MLC900V178KB140175 |
| 2,000 | 140 | 197 | 57 | 1.2 | 60 | 2.6 | MLC900V208KB140197 |
| 2,300 | 140 | 225 | 56 | 1.3 | 70 | 2.4 | MLC900V238KB140225 |

- * ・リップル電流に低周波(商用周波数)や10kHzを超える成分が多く含まれる場合はご相談ください。
 ・60°C, 定格電圧印加以外での許容リップル電流は補正係数を乗じてください。
 ただし端子許容電流を上限としてください。

$$\text{素子温度 } T = T_a + I^2 \times ESR \times R_{th}$$

パワーエレクトロニクス用プラスチックフィルムコンデンサ

■標準品定格表

| 定格電圧 $U_N : 1,100V.DC$ | | 試験電圧 (T-T間) $U_{TT} : 1,650V.DC/10s$ 試験電圧 (T-C間) $U_{TC} : 3,200V.AC/10s$ | | | | | |
|------------------------------------|-----------------------|---|--|---|-------------------------------------|-----------------------------------|---------------------|
| 公称 静電容量 C_N (μF) | 寸法 | | 許容リプル電流 I_{max}^* (Arms / at60°C, 1k~10kHz) | 等価直列抵抗 (代表値) ESR (m Ω) | 内部インダクタンス (代表値) ESL (nH) | 熱抵抗 (代表値) R_{th} (K/W) | 製品記号 |
| | 径 ϕD (mm) | ケース高さ L_1 (mm) | | | | | |
| 140 | 85 | 70 | 18 | 3.3 | 60 | 8.6 | MLC1100V147KB8570 |
| 160 | 85 | 75 | 19 | 3.5 | 65 | 7.6 | MLC1100V167KB8575 |
| 170 | 88.5 | 70 | 21 | 2.8 | 60 | 8.2 | MLC1100V177KB88570 |
| 180 | 85 | 80 | 19 | 3.7 | 65 | 7.1 | MLC1100V187KB8580 |
| | 88.5 | 75 | 21 | 3.1 | 65 | 7.4 | MLC1100V187KB88575 |
| 200 | 85 | 87 | 18 | 4.2 | 75 | 6.9 | MLC1100V207KB8587 |
| | 88.5 | 80 | 20 | 3.4 | 65 | 7.2 | MLC1100V207KB88580 |
| 210 | 100 | 70 | 24 | 2.4 | 60 | 6.9 | MLC1100V217KB10070 |
| 230 | 85 | 95 | 18 | 4.6 | 80 | 6.2 | MLC1100V237KB8595 |
| | 88.5 | 87 | 20 | 3.7 | 75 | 6.7 | MLC1100V237KB88587 |
| | 100 | 75 | 24 | 2.6 | 65 | 6.4 | MLC1100V237KB10075 |
| 260 | 85 | 106 | 17 | 5.3 | 90 | 5.8 | MLC1100V267KB85106 |
| | 88.5 | 95 | 20 | 4.1 | 80 | 6.0 | MLC1100V267KB88595 |
| | 100 | 80 | 23 | 2.8 | 65 | 6.3 | MLC1100V267KB10080 |
| 290 | 85 | 125 | 36 | 1.7 | 40 | 4.7 | MLC1100V297KB85125 |
| | 88.5 | 106 | 19 | 4.8 | 90 | 5.5 | MLC1100V297KB885106 |
| | 100 | 87 | 23 | 3.1 | 75 | 5.8 | MLC1100V297KB10087 |
| 310 | 116 | 70 | 29 | 1.9 | 60 | 6.0 | MLC1100V297KB11670 |
| | 85 | 120 | 17 | 6.1 | 100 | 5.1 | MLC1100V317KB85120 |
| | 85 | 135 | 35 | 1.8 | 40 | 4.3 | MLC1100V327KB85135 |
| 320 | 116 | 75 | 29 | 2.1 | 65 | 5.6 | MLC1100V327KB11675 |
| | 88.5 | 125 | 38 | 1.5 | 40 | 4.6 | MLC1100V337KB885125 |
| 330 | 100 | 95 | 23 | 3.4 | 80 | 5.2 | MLC1100V337KB10095 |
| | 88.5 | 120 | 19 | 5.5 | 100 | 4.8 | MLC1100V357KB885120 |
| 350 | 85 | 145 | 35 | 1.9 | 45 | 4.2 | MLC1100V367KB85145 |
| 360 | 116 | 80 | 29 | 2.2 | 65 | 5.2 | MLC1100V367KB11680 |
| | 88.5 | 135 | 39 | 1.6 | 40 | 4.2 | MLC1100V377KB885135 |
| 370 | 100 | 106 | 22 | 3.9 | 90 | 4.8 | MLC1100V387KB100106 |
| 400 | 85 | 159 | 35 | 2.2 | 50 | 3.7 | MLC1100V407KB85159 |
| | 116 | 87 | 28 | 2.4 | 75 | 5.0 | MLC1100V407KB11687 |
| 410 | 88.5 | 145 | 38 | 1.7 | 45 | 4.0 | MLC1100V417KB885145 |
| 440 | 100 | 125 | 46 | 1.2 | 40 | 3.9 | MLC1100V447KB100125 |
| 450 | 100 | 120 | 22 | 4.5 | 100 | 4.2 | MLC1100V457KB100120 |
| | 85 | 175 | 35 | 2.4 | 55 | 3.4 | MLC1100V467KB85175 |
| 460 | 88.5 | 159 | 38 | 1.9 | 50 | 3.6 | MLC1100V467KB885159 |
| | 116 | 95 | 28 | 2.7 | 80 | 4.5 | MLC1100V467KB11695 |
| | 140 | 70 | 32 | 1.4 | 60 | 6.6 | MLC1100V467KB14070 |
| | 100 | 135 | 45 | 1.4 | 40 | 3.6 | MLC1100V477KB100135 |
| 500 | 140 | 75 | 32 | 1.6 | 65 | 6.2 | MLC1100V507KB14075 |
| 520 | 100 | 145 | 44 | 1.5 | 45 | 3.4 | MLC1100V527KB100145 |
| | 85 | 197 | 34 | 2.7 | 60 | 3.1 | MLC1100V537KB85197 |
| | 88.5 | 175 | 38 | 2.1 | 55 | 3.3 | MLC1100V537KB885175 |
| 530 | 116 | 106 | 28 | 3.0 | 90 | 4.0 | MLC1100V537KB116106 |
| | 140 | 80 | 32 | 1.7 | 65 | 6.0 | MLC1100V567KB14080 |
| | 100 | 159 | 44 | 1.6 | 50 | 3.1 | MLC1100V587KB100159 |
| 580 | 116 | 125 | 53 | 1.0 | 40 | 3.6 | MLC1100V587KB116125 |
| | 88.5 | 197 | 37 | 2.5 | 60 | 2.9 | MLC1100V597KB885197 |
| 620 | 85 | 225 | 34 | 3.2 | 70 | 2.7 | MLC1100V627KB85225 |
| | 116 | 120 | 27 | 3.5 | 100 | 3.6 | MLC1100V627KB116120 |
| 630 | 140 | 87 | 32 | 1.8 | 75 | 5.5 | MLC1100V637KB14087 |
| 650 | 116 | 135 | 52 | 1.1 | 40 | 3.3 | MLC1100V657KB116135 |
| 690 | 100 | 175 | 44 | 1.7 | 55 | 2.9 | MLC1100V697KB100175 |
| 700 | 88.5 | 225 | 37 | 2.9 | 70 | 2.6 | MLC1100V707KB885225 |
| | 116 | 145 | 52 | 1.2 | 45 | 3.0 | MLC1100V727KB116145 |
| 720 | 140 | 95 | 31 | 2.0 | 80 | 5.0 | MLC1100V727KB14095 |
| | 100 | 197 | 43 | 2.0 | 60 | 2.5 | MLC1100V767KB100197 |
| 810 | 116 | 159 | 52 | 1.3 | 50 | 2.8 | MLC1100V817KB116159 |
| | 140 | 106 | 30 | 2.3 | 90 | 4.6 | MLC1100V817KB140106 |
| 900 | 100 | 225 | 43 | 2.4 | 70 | 2.2 | MLC1100V907KB100225 |
| 920 | 116 | 175 | 52 | 1.4 | 55 | 2.6 | MLC1100V927KB116175 |
| | 140 | 125 | 56 | 0.8 | 40 | 4.0 | MLC1100V927KB140125 |
| 950 | 140 | 120 | 30 | 2.6 | 100 | 4.0 | MLC1100V957KB140120 |
| | 116 | 197 | 50 | 1.7 | 60 | 2.3 | MLC1100V108KB116197 |
| 1,000 | 140 | 135 | 56 | 0.8 | 40 | 3.7 | MLC1100V108KB140135 |
| 1,100 | 140 | 145 | 56 | 0.9 | 45 | 3.5 | MLC1100V118KB140145 |
| 1,200 | 116 | 225 | 50 | 1.9 | 70 | 2.0 | MLC1100V128KB116225 |
| | 140 | 159 | 55 | 1.0 | 50 | 3.2 | MLC1100V128KB140159 |
| 1,400 | 140 | 175 | 53 | 1.1 | 55 | 3.2 | MLC1100V148KB140175 |
| 1,600 | 140 | 197 | 55 | 1.2 | 60 | 2.7 | MLC1100V168KB140197 |
| 1,900 | 140 | 225 | 55 | 1.4 | 70 | 2.3 | MLC1100V198KB140225 |

- * ・リプル電流に低周波（商用周波数）や10kHzを超える成分が多く含まれる場合はご相談ください。
 ・60°C、定格電圧印加以外での許容リプル電流は補正係数を乗じてください。
 ただし端子許容電流を上限としてください。

$$\text{素子温度 } T = T_a + I^2 \times ESR \times R_{th}$$

■標準品定格表

| 定格電圧 $U_N : 1,300V.DC$ | | 試験電圧 (T-T間) $U_{TT} : 1,950V.DC/10s$ 試験電圧 (T-C間) $U_{TC} : 3,200V.AC/10s$ | | | | | |
|------------------------------------|-----------------------|---|---|---|-------------------------------------|-----------------------------------|---------------------|
| 公称 静電容量 C_N (μF) | 寸法 | | 許容リップル電流 I_{max}^* (Arms / at60°C, 1k~10kHz) | 等価直列抵抗 (代表値) ESR (m Ω) | 内部インダクタンス (代表値) ESL (nH) | 熱抵抗 (代表値) R_{th} (K/W) | 製品記号 |
| | 径 ϕD (mm) | ケース高さ L_1 (mm) | | | | | |
| 100 | 85 | 70 | 17 | 3.8 | 60 | 8.1 | MLC1300V107KB8570 |
| 110 | 85 | 75 | 17 | 4.1 | 65 | 7.6 | MLC1300V117KB8575 |
| | 88.5 | 70 | 19 | 3.5 | 60 | 8.2 | MLC1300V117KB88570 |
| 120 | 88.5 | 75 | 19 | 3.8 | 65 | 7.6 | MLC1300V127KB88575 |
| 130 | 85 | 80 | 17 | 4.2 | 65 | 7.3 | MLC1300V137KB8580 |
| 140 | 85 | 87 | 17 | 4.8 | 75 | 7.0 | MLC1300V147KB8587 |
| | 88.5 | 80 | 19 | 4.0 | 65 | 7.2 | MLC1300V147KB88580 |
| 150 | 100 | 70 | 22 | 2.7 | 60 | 6.9 | MLC1300V157KB10070 |
| 160 | 85 | 95 | 17 | 5.4 | 80 | 6.3 | MLC1300V167KB8595 |
| | 88.5 | 87 | 19 | 4.3 | 75 | 6.7 | MLC1300V167KB88587 |
| 170 | 100 | 75 | 22 | 2.9 | 65 | 6.5 | MLC1300V177KB10075 |
| 180 | 88.5 | 95 | 19 | 4.8 | 80 | 6.0 | MLC1300V187KB88595 |
| | 100 | 80 | 22 | 3.3 | 65 | 6.2 | MLC1300V187KB10080 |
| 190 | 85 | 106 | 17 | 6.0 | 90 | 5.6 | MLC1300V197KB85106 |
| 200 | 88.5 | 106 | 18 | 5.7 | 90 | 5.5 | MLC1300V207KB885106 |
| 210 | 85 | 125 | 34 | 1.9 | 40 | 4.7 | MLC1300V217KB85125 |
| | 100 | 87 | 22 | 3.5 | 75 | 5.8 | MLC1300V217KB10087 |
| | 116 | 70 | 27 | 2.1 | 60 | 5.9 | MLC1300V217KB11670 |
| 220 | 85 | 120 | 16 | 7.0 | 100 | 5.2 | MLC1300V227KB85120 |
| | 85 | 135 | 33 | 2.0 | 40 | 4.3 | MLC1300V237KB85135 |
| 230 | 88.5 | 125 | 36 | 1.7 | 40 | 4.6 | MLC1300V237KB885125 |
| | 116 | 75 | 27 | 2.3 | 65 | 5.5 | MLC1300V237KB11675 |
| | 88.5 | 120 | 18 | 6.5 | 100 | 4.8 | MLC1300V247KB885120 |
| 240 | 100 | 95 | 22 | 3.8 | 80 | 5.2 | MLC1300V247KB10095 |
| | 88.5 | 135 | 35 | 1.9 | 40 | 4.3 | MLC1300V257KB885135 |
| 260 | 85 | 145 | 33 | 2.2 | 45 | 4.0 | MLC1300V267KB85145 |
| | 116 | 80 | 27 | 2.5 | 65 | 5.2 | MLC1300V267KB11680 |
| 270 | 100 | 106 | 21 | 4.4 | 90 | 4.8 | MLC1300V277KB100106 |
| 280 | 88.5 | 145 | 35 | 2.0 | 45 | 4.1 | MLC1300V287KB885145 |
| 290 | 85 | 159 | 32 | 2.4 | 50 | 3.8 | MLC1300V297KB85159 |
| | 116 | 87 | 27 | 2.7 | 75 | 4.9 | MLC1300V297KB11687 |
| 300 | 100 | 125 | 42 | 1.4 | 40 | 3.9 | MLC1300V307KB100125 |
| 310 | 140 | 70 | 30 | 1.7 | 60 | 6.5 | MLC1300V317KB14070 |
| | 88.5 | 159 | 35 | 2.2 | 50 | 3.7 | MLC1300V327KB885159 |
| 320 | 100 | 120 | 21 | 5.1 | 100 | 4.2 | MLC1300V327KB100120 |
| | 85 | 175 | 33 | 2.7 | 55 | 3.4 | MLC1300V337KB85175 |
| 330 | 100 | 135 | 42 | 1.5 | 40 | 3.6 | MLC1300V337KB100135 |
| | 116 | 95 | 27 | 3.0 | 80 | 4.5 | MLC1300V337KB11695 |
| | 140 | 75 | 30 | 1.7 | 65 | 6.2 | MLC1300V357KB14075 |
| 360 | 88.5 | 175 | 35 | 2.5 | 55 | 3.3 | MLC1300V367KB885175 |
| 370 | 100 | 145 | 42 | 1.7 | 45 | 3.3 | MLC1300V377KB100145 |
| 380 | 85 | 197 | 32 | 3.1 | 60 | 3.0 | MLC1300V387KB85197 |
| | 116 | 106 | 27 | 3.4 | 90 | 3.9 | MLC1300V387KB116106 |
| | 140 | 80 | 30 | 1.9 | 65 | 5.8 | MLC1300V387KB14080 |
| 410 | 88.5 | 197 | 34 | 2.9 | 60 | 2.9 | MLC1300V417KB885197 |
| 420 | 100 | 159 | 42 | 1.8 | 50 | 3.1 | MLC1300V427KB100159 |
| | 116 | 125 | 50 | 1.1 | 40 | 3.5 | MLC1300V427KB116125 |
| 430 | 140 | 87 | 30 | 2.1 | 75 | 5.3 | MLC1300V437KB14087 |
| | 85 | 225 | 32 | 3.5 | 70 | 2.7 | MLC1300V457KB85225 |
| 450 | 116 | 120 | 26 | 3.9 | 100 | 3.6 | MLC1300V457KB116120 |
| | 116 | 135 | 50 | 1.2 | 40 | 3.3 | MLC1300V467KB116135 |
| 470 | 100 | 175 | 41 | 2.0 | 55 | 2.9 | MLC1300V477KB100175 |
| 480 | 88.5 | 225 | 34 | 3.3 | 70 | 2.7 | MLC1300V487KB885225 |
| 490 | 140 | 95 | 29 | 2.3 | 80 | 5.1 | MLC1300V497KB14095 |
| 520 | 116 | 145 | 50 | 1.3 | 45 | 3.0 | MLC1300V527KB116145 |
| | 100 | 197 | 40 | 2.3 | 60 | 2.6 | MLC1300V557KB100197 |
| 550 | 140 | 106 | 29 | 2.6 | 90 | 4.7 | MLC1300V557KB140106 |
| | 116 | 159 | 50 | 1.4 | 50 | 2.8 | MLC1300V587KB116159 |
| 630 | 140 | 125 | 53 | 0.9 | 40 | 3.9 | MLC1300V637KB140125 |
| 650 | 100 | 225 | 40 | 2.6 | 70 | 2.3 | MLC1300V657KB100225 |
| | 140 | 120 | 29 | 3.0 | 100 | 4.1 | MLC1300V657KB140120 |
| 660 | 116 | 175 | 49 | 1.6 | 55 | 2.6 | MLC1300V667KB116175 |
| 700 | 140 | 135 | 54 | 0.9 | 40 | 3.9 | MLC1300V707KB140135 |
| 760 | 116 | 197 | 49 | 1.8 | 60 | 2.3 | MLC1300V767KB116197 |
| 770 | 140 | 145 | 53 | 1.0 | 45 | 3.6 | MLC1300V777KB140145 |
| 870 | 140 | 159 | 53 | 1.1 | 50 | 3.3 | MLC1300V877KB140159 |
| 900 | 116 | 225 | 49 | 2.1 | 70 | 2.0 | MLC1300V907KB116225 |
| 990 | 140 | 175 | 53 | 1.2 | 55 | 3.0 | MLC1300V997KB140175 |
| 1,100 | 140 | 197 | 52 | 1.4 | 60 | 2.6 | MLC1300V118KB140197 |
| 1,300 | 140 | 225 | 52 | 1.6 | 70 | 2.4 | MLC1300V138KB140225 |

- * ・リップル電流に低周波(商用周波数)や10kHzを超える成分が多く含まれる場合はご相談ください。
 ・60°C, 定格電圧印加以外での許容リップル電流は補正係数を乗じてください。
 ただし端子許容電流を上限としてください。

$$\text{素子温度 } T = T_a + I^2 \times ESR \times R_{th}$$

パワーエレクトロニクス用プラスチックフィルムコンデンサ

■標準品定格表

| 定格電圧 $U_N : 1,500V.DC$ | | 試験電圧 (T-T間) $U_{TT} : 2,250V.DC/10s$ 試験電圧 (T-C間) $U_{TC} : 3,200V.AC/10s$ | | | | | |
|------------------------------------|-----------------------|---|--|---|-------------------------------------|-----------------------------------|---------------------|
| 公称 静電容量 C_N (μF) | 寸法 | | 許容リプル電流 I_{max}^* (Arms / at60°C, 1k~10kHz) | 等価直列抵抗 (代表値) ESR (m Ω) | 内部インダクタンス (代表値) ESL (nH) | 熱抵抗 (代表値) R_{th} (K/W) | 製品記号 |
| | 径 ϕD (mm) | ケース高さ L_1 (mm) | | | | | |
| 70 | 85 | 70 | 16 | 4.6 | 60 | 8.0 | MLC1500V706KB8570 |
| 80 | 85 | 75 | 16 | 4.8 | 65 | 7.7 | MLC1500V806KB8575 |
| | 88.5 | 70 | 18 | 4.0 | 60 | 7.8 | MLC1500V806KB88570 |
| 90 | 85 | 80 | 16 | 5.1 | 65 | 7.1 | MLC1500V906KB8580 |
| | 88.5 | 75 | 18 | 4.3 | 65 | 7.2 | MLC1500V906KB88575 |
| 100 | 85 | 87 | 15 | 5.7 | 75 | 7.0 | MLC1500V107KB8587 |
| | 88.5 | 80 | 17 | 4.7 | 65 | 7.2 | MLC1500V107KB88580 |
| 110 | 85 | 95 | 15 | 6.5 | 80 | 6.1 | MLC1500V117KB8595 |
| | 88.5 | 87 | 17 | 5.2 | 75 | 6.5 | MLC1500V117KB88587 |
| 120 | 100 | 70 | 21 | 3.1 | 60 | 6.9 | MLC1500V117KB10070 |
| | 100 | 75 | 21 | 3.4 | 65 | 6.3 | MLC1500V127KB10075 |
| 130 | 85 | 106 | 15 | 7.3 | 90 | 5.5 | MLC1500V137KB85106 |
| | 88.5 | 95 | 17 | 5.6 | 80 | 6.0 | MLC1500V137KB88595 |
| | 100 | 80 | 20 | 3.8 | 65 | 6.1 | MLC1500V137KB10080 |
| 150 | 88.5 | 106 | 17 | 6.4 | 90 | 5.3 | MLC1500V157KB885106 |
| | 100 | 87 | 20 | 4.0 | 75 | 5.7 | MLC1500V157KB10087 |
| | 116 | 70 | 26 | 2.5 | 60 | 5.7 | MLC1500V157KB11670 |
| 160 | 85 | 120 | 15 | 8.1 | 100 | 4.9 | MLC1500V167KB85120 |
| | 116 | 75 | 25 | 2.7 | 65 | 5.5 | MLC1500V167KB11675 |
| 170 | 88.5 | 120 | 16 | 7.7 | 100 | 4.8 | MLC1500V177KB885120 |
| | 100 | 95 | 20 | 4.5 | 80 | 5.1 | MLC1500V177KB10095 |
| 180 | 116 | 80 | 25 | 2.9 | 65 | 5.1 | MLC1500V187KB11680 |
| 190 | 100 | 106 | 20 | 5.2 | 90 | 4.7 | MLC1500V197KB100106 |
| 200 | 85 | 159 | 30 | 2.9 | 50 | 3.8 | MLC1500V207KB85159 |
| | 116 | 87 | 24 | 3.2 | 75 | 5.2 | MLC1500V207KB11687 |
| 230 | 85 | 175 | 30 | 3.2 | 55 | 3.4 | MLC1500V237KB85175 |
| | 88.5 | 159 | 33 | 2.6 | 50 | 3.6 | MLC1500V237KB885159 |
| | 100 | 120 | 20 | 5.9 | 100 | 4.2 | MLC1500V237KB100120 |
| | 116 | 95 | 24 | 3.5 | 80 | 4.7 | MLC1500V237KB11695 |
| | 140 | 70 | 29 | 1.8 | 60 | 6.8 | MLC1500V237KB14070 |
| 250 | 140 | 75 | 29 | 2.0 | 65 | 6.1 | MLC1500V257KB14075 |
| 260 | 88.5 | 175 | 32 | 2.9 | 55 | 3.3 | MLC1500V267KB885175 |
| 270 | 85 | 197 | 30 | 3.6 | 60 | 3.0 | MLC1500V277KB85197 |
| | 116 | 106 | 24 | 3.9 | 90 | 4.3 | MLC1500V277KB116106 |
| 280 | 140 | 80 | 28 | 2.1 | 65 | 5.8 | MLC1500V287KB14080 |
| 300 | 88.5 | 197 | 32 | 3.3 | 60 | 2.9 | MLC1500V307KB885197 |
| | 100 | 159 | 38 | 2.1 | 50 | 3.2 | MLC1500V307KB100159 |
| 320 | 85 | 225 | 30 | 4.2 | 70 | 2.6 | MLC1500V327KB85225 |
| | 116 | 120 | 24 | 4.5 | 100 | 3.7 | MLC1500V327KB116120 |
| | 140 | 87 | 28 | 2.3 | 75 | 5.3 | MLC1500V327KB14087 |
| 340 | 100 | 175 | 37 | 2.3 | 55 | 3.0 | MLC1500V347KB100175 |
| 350 | 88.5 | 225 | 31 | 3.8 | 70 | 2.7 | MLC1500V357KB885225 |
| 360 | 140 | 95 | 28 | 2.5 | 80 | 5.1 | MLC1500V367KB14095 |
| 390 | 100 | 197 | 37 | 2.7 | 60 | 2.6 | MLC1500V397KB100197 |
| 400 | 140 | 106 | 27 | 2.9 | 90 | 4.7 | MLC1500V407KB140106 |
| 410 | 116 | 159 | 46 | 1.7 | 50 | 2.8 | MLC1500V417KB116159 |
| 460 | 100 | 225 | 37 | 3.1 | 70 | 2.3 | MLC1500V467KB100225 |
| 470 | 116 | 175 | 46 | 1.8 | 55 | 2.5 | MLC1500V477KB116175 |
| 480 | 140 | 120 | 27 | 3.3 | 100 | 4.1 | MLC1500V487KB140120 |
| 540 | 116 | 197 | 45 | 2.1 | 60 | 2.3 | MLC1500V547KB116197 |
| | 116 | 225 | 45 | 2.4 | 70 | 2.0 | MLC1500V647KB116225 |
| 640 | 140 | 159 | 51 | 1.2 | 50 | 3.2 | MLC1500V647KB140159 |
| | 140 | 175 | 50 | 1.3 | 55 | 3.1 | MLC1500V727KB140175 |
| 810 | 140 | 197 | 49 | 1.5 | 60 | 2.8 | MLC1500V817KB140197 |
| 960 | 140 | 225 | 49 | 1.8 | 70 | 2.3 | MLC1500V967KB140225 |

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・60°C、定格電圧印加以外での許容リプル電流は補正係数を乗じてください。

ただし端子許容電流を上限としてください。

$$\text{素子温度 } T = T_a + I^2 \times ESR \times R_{th}$$