



Fixed Inductors for Surface Mounting 面実装用 固定インダクタ

■ D73LF/D73LC

■ D73F/D73C/D73CT

■ D75F

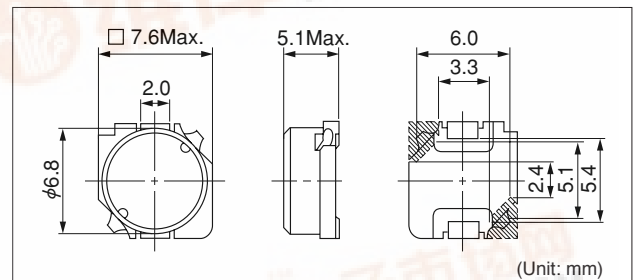


● D7 Series Power Inductors ●

● D7シリーズパワーインダクタ ●

Inductance Range: 1.0~100 μ H (D73LF, D73F, D73C), 1.2~100 μ H (D73LC), 4.7~470 μ H (D73CT), 1.0~470 μ H (D75F)

DIMENSIONS / 外形寸法図



Note (*): D73LF/D73LC; 3mm Max. height
D73F/D73C/D73CT; 3.5mm Max. height
D75F; 5.1mm Max. height

FEATURES / 特長

- Low-profile (7.6mm Max. square, 3.0, 3.5 and 5.1mm Max. height).
- Available in magnetically shielded construction or unshielded construction version.
- Suitable for large current.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.

- 低背 (7.6mm角Max.、高さ、3.0、3.5および5.1mm Max.)
- 閉磁路又は開磁路構造が選択可能
- 大電流対応
- 各種機器のDC-DCコンバータ用インダクタに最適
- RoHS指令対応

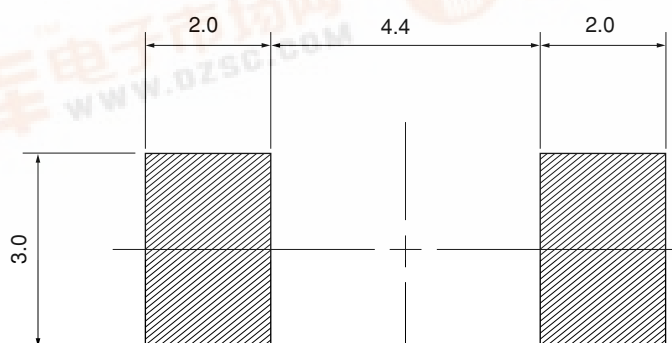
MEASUREMENT CONDITION / 測定条件

- (1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent.
- (2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.
- (3) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)

- (1) インダクタンスはLCRメータ4284A (Agilent Technologies) または同等品により測定する。
- (2) 直流抵抗はデジタルマルチメータTR6871 (Advantest) または同等品により測定する。
- (3) 最大許容電流は、直流重畳電流を流した時インダクタンスの値が初期値より10%減少する直流電流値、または直流電流により、コイルの温度が40°C上昇の何れか小さい値です。(周囲温度20°Cを基準とする。)

Recommended patterns

推奨パターン図



(Unit: mm)

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SELECTION GUIDE FOR STANDARD COILS

TYPE D73LF Series (Unshielded) 開磁路タイプ (リングコア無し), (Quantity/reel; 1,000 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 最大許容電流 ⁽³⁾ |
|------------------------|-------------------------------------|------------------|--|--|
| TOKO Part Number | Inductance ⁽¹⁾ L (μH) | Tolerance (%) | DC Resistance ⁽²⁾ (Ω) Max. | Rated DC Current ⁽³⁾ (A) Max. |
| #817FY-1R0M | 1.0 | ± 20 | 0.02 | 3.60 |
| #817FY-1R5M | 1.5 | ± 20 | 0.03 | 3.40 |
| #817FY-2R2M | 2.2 | ± 20 | 0.03 | 2.68 |
| #817FY-3R3M | 3.3 | ± 20 | 0.04 | 2.40 |
| #817FY-4R7M | 4.7 | ± 20 | 0.06 | 2.26 |
| #817FY-6R8M | 6.8 | ± 20 | 0.08 | 1.66 |
| #817FY-100M | 10.0 | ± 20 | 0.12 | 1.37 |
| #817FY-120M | 12.0 | ± 20 | 0.14 | 1.12 |
| #817FY-150M | 15.0 | ± 20 | 0.18 | 1.08 |
| #817FY-180M | 18.0 | ± 20 | 0.20 | 1.04 |
| #817FY-220M | 22.0 | ± 20 | 0.27 | 0.80 |
| #817FY-270M | 27.0 | ± 20 | 0.32 | 0.77 |
| #817FY-330M | 33.0 | ± 20 | 0.35 | 0.71 |
| #817FY-390M | 39.0 | ± 20 | 0.48 | 0.62 |
| #817FY-470M | 47.0 | ± 20 | 0.56 | 0.56 |
| #817FY-560M | 56.0 | ± 20 | 0.63 | 0.54 |
| #817FY-680M | 68.0 | ± 20 | 0.71 | 0.50 |
| #817FE-820M | 82.0 | ± 20 | 0.97 | 0.43 |
| #817FE-101M | 100.0 | ± 20 | 1.08 | 0.39 |

TYPE D73LC Series (With Ferrite Shield) 閉磁路タイプ (リングコア有り), (Quantity/reel; 1,000 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 最大許容電流 ⁽³⁾ |
|------------------------|-------------------------------------|------------------|--|--|
| TOKO Part Number | Inductance ⁽¹⁾ L (μH) | Tolerance (%) | DC Resistance ⁽²⁾ (Ω) Max. | Rated DC Current ⁽³⁾ (A) Max. |
| #817CY-1R2M | 1.2 | ± 20 | 0.02 | 2.73 |
| #817CY-1R8M | 1.8 | ± 20 | 0.02 | 2.26 |
| #817CY-2R4M | 2.4 | ± 20 | 0.03 | 1.91 |
| #817CY-3R3M | 3.3 | ± 20 | 0.03 | 1.68 |
| #817CY-4R7M | 4.7 | ± 20 | 0.04 | 1.28 |
| #817CY-6R8M | 6.8 | ± 20 | 0.05 | 1.06 |
| #817CY-100M | 10.0 | ± 20 | 0.08 | 1.04 |
| #817CY-120M | 12.0 | ± 20 | 0.10 | 0.84 |
| #817CY-150M | 15.0 | ± 20 | 0.11 | 0.77 |
| #817CY-180M | 18.0 | ± 20 | 0.13 | 0.67 |
| #817CY-220M | 22.0 | ± 20 | 0.18 | 0.62 |
| #817CY-270M | 27.0 | ± 20 | 0.20 | 0.57 |
| #817CY-330M | 33.0 | ± 20 | 0.26 | 0.51 |
| #817CY-390M | 39.0 | ± 20 | 0.30 | 0.46 |
| #817CY-470M | 47.0 | ± 20 | 0.41 | 0.45 |
| #817CY-560M | 56.0 | ± 20 | 0.43 | 0.37 |
| #817CY-680M | 68.0 | ± 20 | 0.50 | 0.35 |
| #817CE-820M | 82.0 | ± 20 | 0.72 | 0.32 |
| #817CE-101M | 100.0 | ± 20 | 0.78 | 0.30 |

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SELECTION GUIDE FOR STANDARD COILS

TYPE D73F Series (Unshielded) 開磁路タイプ (リングコア無し) (Quantity/reel; 1,000 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 最大許容電流 ⁽³⁾ |
|------------------------|---|------------------|---|--|
| TOKO Part Number | Inductance ⁽¹⁾ (μ H) | Tolerance (%) | DC Resistance ⁽²⁾ (Ω) Max. | Rated DC Current ⁽³⁾ (A) Max. |
| #636FY-1R0M | 1.0 | ± 20 | 0.018 | 3.00 |
| #636FY-1R5M | 1.5 | ± 20 | 0.023 | 2.62 |
| #636FY-2R2M | 2.2 | ± 20 | 0.029 | 2.27 |
| #636FY-3R3M | 3.3 | ± 20 | 0.039 | 1.98 |
| #636FY-4R7M | 4.7 | ± 20 | 0.050 | 1.75 |
| #636FY-6R8M | 6.8 | ± 20 | 0.065 | 1.47 |
| #636FY-100M | 10.0 | ± 20 | 0.086 | 1.28 |
| #636FY-120M | 12.0 | ± 20 | 0.111 | 1.09 |
| #636FY-150M | 15.0 | ± 20 | 0.143 | 0.98 |
| #636FY-180M | 18.0 | ± 20 | 0.169 | 0.87 |
| #636FY-220M | 22.0 | ± 20 | 0.202 | 0.80 |
| #636FY-270M | 27.0 | ± 20 | 0.260 | 0.70 |
| #636FY-330M | 33.0 | ± 20 | 0.312 | 0.63 |
| #636FY-390M | 39.0 | ± 20 | 0.364 | 0.58 |
| #636FY-470M | 47.0 | ± 20 | 0.442 | 0.53 |
| #636FY-560M | 56.0 | ± 20 | 0.520 | 0.48 |
| #636FY-680M | 68.0 | ± 20 | 0.650 | 0.42 |
| #636FY-820M | 82.0 | ± 20 | 0.780 | 0.37 |
| #636FY-101M | 100.0 | ± 20 | 1.027 | 0.33 |

TYPE D73C Series (With Ferrite Shield) 閉磁路タイプ (リングコア有り) (Quantity/reel; 1,000 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 最大許容電流 ⁽³⁾ |
|------------------------|---|------------------|---|--|
| TOKO Part Number | Inductance ⁽¹⁾ (μ H) | Tolerance (%) | DC Resistance ⁽²⁾ (Ω) Max. | Rated DC Current ⁽³⁾ (A) Max. |
| #636CY-1R0M | 1.0 | ± 20 | 0.019 | 3.12 |
| #636CY-1R5M | 1.5 | ± 20 | 0.023 | 2.85 |
| #636CY-2R2M | 2.2 | ± 20 | 0.028 | 2.66 |
| #636CY-3R3M | 3.3 | ± 20 | 0.035 | 2.26 |
| #636CY-4R7M | 4.7 | ± 20 | 0.043 | 1.96 |
| #636CY-6R8M | 6.8 | ± 20 | 0.055 | 1.76 |
| #636CY-100M | 10.0 | ± 20 | 0.080 | 1.34 |
| #636CY-120M | 12.0 | ± 20 | 0.090 | 1.23 |
| #636CY-150M | 15.0 | ± 20 | 0.120 | 1.09 |
| #636CY-180M | 18.0 | ± 20 | 0.130 | 0.99 |
| #636CY-220M | 22.0 | ± 20 | 0.150 | 0.90 |
| #636CY-270M | 27.0 | ± 20 | 0.210 | 0.81 |
| #636CY-330M | 33.0 | ± 20 | 0.250 | 0.72 |
| #636CY-390M | 39.0 | ± 20 | 0.310 | 0.67 |
| #636CY-470M | 47.0 | ± 20 | 0.350 | 0.60 |
| #636CY-560M | 56.0 | ± 20 | 0.430 | 0.55 |
| #636CY-680M | 68.0 | ± 20 | 0.520 | 0.50 |
| #636CY-820M | 82.0 | ± 20 | 0.600 | 0.46 |
| #636CY-101M | 100.0 | ± 20 | 0.790 | 0.41 |

TYPE D73CT Series (With Ferrite Shield) 閉磁路タイプ (リングコア有り) (Quantity/reel; 1,000 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 最大許容電流 ⁽³⁾ |
|------------------------|---|------------------|---|--|
| TOKO Part Number | Inductance ⁽¹⁾ L (μ H) | Tolerance (%) | DC Resistance ⁽²⁾ (Ω) Max. | Rated DC Current ⁽³⁾ (A) Max. |
| #A854CY-4R7M | 4.7 | ± 20 | 0.037 | 1.64 |
| #A854CY-6R8M | 6.8 | ± 20 | 0.044 | 1.39 |
| #A854CY-100M | 10.0 | ± 20 | 0.057 | 1.09 |
| #A854CY-150M | 15.0 | ± 20 | 0.082 | 0.89 |
| #A854CY-220M | 22.0 | ± 20 | 0.13 | 0.73 |
| #A854CY-330M | 33.0 | ± 20 | 0.18 | 0.59 |
| #A854CY-470M | 47.0 | ± 20 | 0.26 | 0.50 |
| #A854CY-680M | 68.0 | ± 20 | 0.37 | 0.42 |
| #A854CY-101M | 100.0 | ± 20 | 0.53 | 0.34 |
| #A854CY-151M | 150.0 | ± 20 | 0.77 | 0.28 |
| #A854CE-221M | 220.0 | ± 20 | 1.26 | 0.22 |
| #A854CE-331M | 330.0 | ± 20 | 1.64 | 0.19 |
| #A854CE-471M | 470.0 | ± 20 | 2.82 | 0.15 |

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SELECTION GUIDE FOR STANDARD COILS

TYPE D75F Series (Unshielded) 開磁路タイプ (リングコア無し) (Quantity/reel; 1,000 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 最大許容電流 ⁽³⁾ |
|------------------------|---|------------------|---|--|
| TOKO Part Number | Inductance ⁽¹⁾ (μ H) | Tolerance (%) | DC Resistance ⁽²⁾ (Ω) Max. | Rated DC Current ⁽³⁾ (A) Max. |
| #646FY-1R0M | 1.0 | ± 20 | 0.023 | 2.88 |
| #646FY-1R5M | 1.5 | ± 20 | 0.028 | 2.56 |
| #646FY-2R2M | 2.2 | ± 20 | 0.032 | 2.36 |
| #646FY-3R3M | 3.3 | ± 20 | 0.038 | 2.16 |
| #646FY-4R7M | 4.7 | ± 20 | 0.049 | 1.88 |
| #646FY-6R8M | 6.8 | ± 20 | 0.060 | 1.68 |
| #646FY-100M | 10.0 | ± 20 | 0.070 | 1.56 |
| #646FY-120M | 12.0 | ± 20 | 0.080 | 1.44 |
| #646FY-150M | 15.0 | ± 20 | 0.090 | 1.36 |
| #646FY-180M | 18.0 | ± 20 | 0.100 | 1.28 |
| #646FY-220M | 22.0 | ± 20 | 0.120 | 1.17 |
| #646FY-270M | 27.0 | ± 20 | 0.140 | 1.07 |
| #646FY-330M | 33.0 | ± 20 | 0.160 | 1.00 |
| #646FY-390M | 39.0 | ± 20 | 0.190 | 0.91 |
| #646FY-470M | 47.0 | ± 20 | 0.220 | 0.84 |
| #646FY-560M | 56.0 | ± 20 | 0.290 | 0.72 |
| #646FY-680M | 68.0 | ± 20 | 0.340 | 0.66 |
| #646FY-820M | 82.0 | ± 20 | 0.460 | 0.58 |
| #646FY-101M | 100.0 | ± 20 | 0.550 | 0.51 |
| #646FY-121K | 120.0 | ± 10 | 0.670 | 0.42 |
| #646FY-151K | 150.0 | ± 10 | 0.900 | 0.37 |
| #646FY-181K | 180.0 | ± 10 | 1.050 | 0.35 |
| #646FY-221K | 220.0 | ± 10 | 1.350 | 0.29 |
| #646FY-271K | 270.0 | ± 10 | 1.550 | 0.28 |
| #646FY-331K | 330.0 | ± 10 | 2.050 | 0.23 |
| #646FY-391K | 390.0 | ± 10 | 2.300 | 0.21 |
| #646FY-471K | 470.0 | ± 10 | 2.600 | 0.19 |