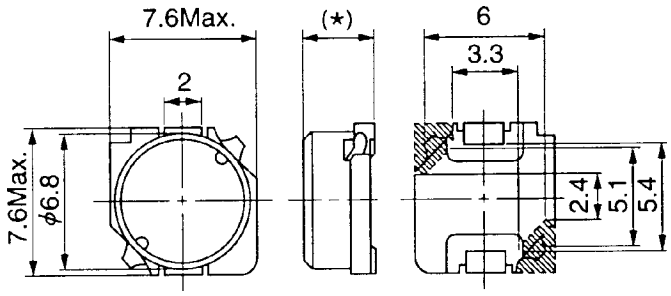
TYPE D73F/C, D73CT, D73LF/LC, D75F/C

Frequency Range: 0.1~1MHz
Inductance Range: 1-100µH
4.7-470µH (D73CT)
1-560µH (D75F/C)

D73F D73C D73CT D73LF D73LC D75F D75C

Features

- Low profile (3.0 ~ 5.1mm max height)
- Inductance range: 1-560µH
- Available in magnetically shielded or unshielded versions
- Supplied on tape and reel for auto insertion
- Ideal for a variety of DC-DC converter inductor applications
- Lead-free terminations



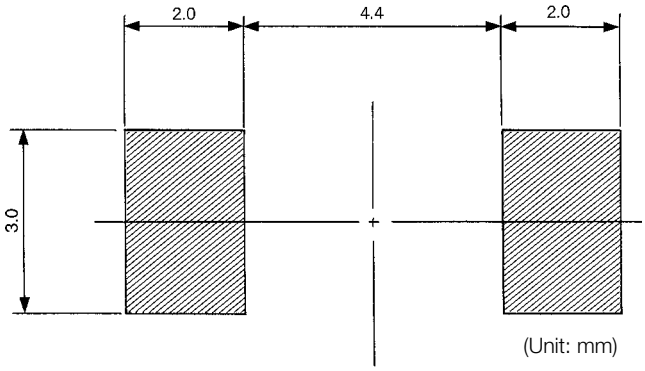
Unit: mm

NOTES(★): D73LF/LC: 3.0 mm max.
D73F/C/CT: 3.5 mm max.
D75F/C: 5.1 mm max.

Measurement Condition

- Inductance is measured with a LCR-meter 4284A (HP) or equivalent.
- DC resistance is measured by Digital Multimeter TR6871 (Advantest) or equivalent.
- The Rated DC current is that which the inductance value decreases 10% by the excitation DC current, or which the temperature rises to 40°C by excitation DC current, whichever is lower.

Recommended patterns:



(Unit: mm)

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STANDARD PARTS SELECTION GUIDE

TYPE D73F SERIES (Unshielded)

(1) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40ºC, whichever is smaller. (Reference ambient temperature 20ºC).

TOKO Part Number	Inductance (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	DC Current(1) (A) max.
#636FY-1R0M=P3	1.0	±20%	100	0.022	2.88
#636FY-1R5M=P3	1.5	±20%	100	0.026	2.67
#636FY-2R2M=P3	2.2	±20%	100	0.032	2.40
#636FY-3R3M=P3	3.3	±20%	100	0.041	2.08
#636FY-4R7M=P3	4.7	±20%	100	0.049	1.92
#636FY-6R8M=P3	6.8	±20%	100	0.067	1.60
#636FY-100M=P3	10.0	±20%	100	0.085	1.41
#636FY-120M=P3	12.0	±20%	100	0.100	1.28
#636FY-150M=P3	15.0	±20%	100	0.130	1.12
#636FY-180M=P3	18.0	±20%	100	0.160	1.00
#636FY-220M=P3	22.0	±20%	100	0.180	0.93
#636FY-270M=P3	27.0	±20%	100	0.240	0.80
#636FY-330M=P3	33.0	±20%	100	0.290	0.72
#636FY-390M=P3	39.0	±20%	100	0.340	0.66
#636FY-470M=P3	47.0	±20%	100	0.410	0.59
#636FY-560M=P3	56.0	±20%	100	0.480	0.55
#636FY-680M=P3	68.0	±20%	100	0.600	0.49
#636FY-820M=P3	82.0	±20%	100	0.710	0.44
#636FY-101M=P3	100.0	±20%	100	0.950	0.38

TYPE D73C SERIES (with Ferrite Shield)

(1) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40ºC, whichever is smaller. (Reference ambient temperature 20ºC).

TOKO Part Number	Inductance (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	DC Current(1) (A) max.
#636CY-1R0M=P3	1.0	±20%	100	0.019	3.12
#636CY-1R5M=P3	1.5	±20%	100	0.023	2.85
#636CY-2R2M=P3	2.2	±20%	100	0.028	2.66
#636CY-3R3M=P3	3.3	±20%	100	0.035	2.26
#636CY-4R7M=P3	4.7	±20%	100	0.043	1.96
#636CY-6R8M=P3	6.8	±20%	100	0.055	1.76
#636CY-100M=P3	10.0	±20%	100	0.080	1.34
#636CY-120M=P3	12.0	±20%	100	0.090	1.23
#636CY-150M=P3	15.0	±20%	100	0.120	1.09
#636CY-180M=P3	18.0	±20%	100	0.130	0.99
#636CY-220M=P3	22.0	±20%	100	0.150	0.90
#636CY-270M=P3	27.0	±20%	100	0.210	0.81
#636CY-330M=P3	33.0	±20%	100	0.250	0.72
#636CY-390M=P3	39.0	±20%	100	0.310	0.67
#636CY-470M=P3	47.0	±20%	100	0.350	0.60
#636CY-560M=P3	56.0	±20%	100	0.430	0.55
#636CY-680M=P3	68.0	±20%	100	0.520	0.50
#636CY-820M=P3	82.0	±20%	100	0.600	0.46
#636CY-101M=P3	100.0	±20%	100	0.790	0.41

TYPE D73CT SERIES (with Ferrite Shield)

(1) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40ºC, whichever is smaller. (Reference ambient temperature 20ºC).

TOKO Part Number	Inductance (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	DC Current(1) (A) max.
#A854CY-4R7M=P3	4.7	±20%	100	0.037	1.64
#A854CY-6R8M=P3	6.8	±20%	100	0.044	1.39
#A854CY-100M=P3	10.0	±20%	100	0.057	1.09
#A854CY-150M=P3	15.0	±20%	100	0.082	0.89
#A854CY-220M=P3	22.0	±20%	100	0.13	0.73
#A854CY-330M=P3	33.0	±20%	100	0.18	0.59
#A854CY-470M=P3	47.0	±20%	100	0.26	0.50
#A854CY-680M=P3	68.0	±20%	100	0.37	0.42
#A854CY-101M=P3	100.0	±20%	100	0.53	0.34
#A854CY-151M=P3	150.0	±20%	100	0.77	0.28
#A854CE-221M=P3	220.0	±20%	100	1.26	0.22
#A854CE-331M=P3	330.0	±20%	100	1.64	0.19
#A854CE-471M=P3	470.0	±20%	100	2.82	0.15

Note: **=P3** is added to each part number to indicate tape and reel packaging.

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STANDARD PARTS SELECTION GUIDE

(1) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40ºC, whichever is smaller. (Reference ambient temperature 20ºC).

TYPE D73LF (Unshielded)

TOKO Part Number	Inductance L (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	(A) max. (1)
#817FY-1R0M=P3	1.0	±20%	100	0.02	3.60
#817FY-1R5M=P3	1.5	±20%	100	0.03	3.40
#817FY-2R2M=P3	2.2	±20%	100	0.03	2.68
#817FY-3R3M=P3	3.3	±20%	100	0.04	2.40
#817FY-4R7M=P3	4.7	±20%	100	0.06	2.26
#817FY-6R8M=P3	6.8	±20%	100	0.08	1.66
#817FY-100M=P3	10.0	±20%	100	0.12	1.37
#817FY-120M=P3	12.0	±20%	100	0.14	1.12
#817FY-150M=P3	15.0	±20%	100	0.18	1.08
#817FY-180M=P3	18.0	±20%	100	0.20	1.04
#817FY-220M=P3	22.0	±20%	100	0.27	0.80
#817FY-270M=P3	27.0	±20%	100	0.32	0.77
#817FY-330M=P3	33.0	±20%	100	0.35	0.71
#817FY-390M=P3	39.0	±20%	100	0.48	0.62
#817FY-470M=P3	47.0	±20%	100	0.56	0.56
#817FY-560M=P3	56.0	±20%	100	0.63	0.54
#817FY-680M=P3	68.0	±20%	100	0.71	0.50
#817FY-820M=P3	82.0	±20%	100	0.97	0.43
#817FY-101M=P3	100.0	±20%	100	1.08	0.39

TYPE D73LC (Shielded)

TOKO Part Number	Inductance L (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	(A) max. (1)
#817CY-1R2M=P3	1.2	±20%	100	0.02	2.73
#817CY-1R8M=P3	1.8	±20%	100	0.02	2.26
#817CY-2R4M=P3	2.4	±20%	100	0.03	1.91
#817CY-3R3M=P3	3.3	±20%	100	0.03	1.68
#817CY-4R7M=P3	4.7	±20%	100	0.04	1.28
#817CY-6R8M=P3	6.8	±20%	100	0.05	1.06
#817CY-100M=P3	10.0	±20%	100	0.08	1.04
#817CY-120M=P3	12.0	±20%	100	0.10	0.84
#817CY-150M=P3	15.0	±20%	100	0.11	0.77
#817CY-180M=P3	18.0	±20%	100	0.13	0.67
#817CY-220M=P3	22.0	±20%	100	0.18	0.62
#817CY-270M=P3	27.0	±20%	100	0.20	0.57
#817CY-330M=P3	33.0	±20%	100	0.26	0.51
#817CY-390M=P3	39.0	±20%	100	0.30	0.46
#817CY-470M=P3	47.0	±20%	100	0.41	0.45
#817CY-560M=P3	56.0	±20%	100	0.43	0.37
#817CY-680M=P3	68.0	±20%	100	0.50	0.35
#817CE-820M=P3	82.0	±20%	100	0.72	0.32
#817CE-101M=P3	100.0	±20%	100	0.78	0.30
#817CE-471M=P3	470.0	±20%	100	3.11	0.191
#817CE-152M=P3	1500 (1.5mH)	±20%	100	10.97	0.108
#817CU-103M=P3	10000 (10.0mH)	±20%	100	64.17	0.044

Note: **=P3** is added to each part number to indicate tape and reel packaging.

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STANDARD PARTS SELECTION GUIDE

⚠ Please read PRECAUTIONS and NOTES sections of this catalog for safe operation. This catalog contains consumer grade specifications only. Detailed technical specifications are available upon request.

TYPE D75F Series (Unshielded)

1) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40ºC, whichever is smaller. (Reference ambient temperature 20ºC).

TOKO Part Number	Inductance (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	DC Current(1) (A) max.
#646FY-1R0M=P3	1.0	±20%	100	0.023	2.88
#646FY-1R5M=P3	1.5	±20%	100	0.028	2.56
#646FY-2R2M=P3	2.2	±20%	100	0.032	2.36
#646FY-3R3M=P3	3.3	±20%	100	0.038	2.16
#646FY-4R7M=P3	4.7	±20%	100	0.049	1.88
#646FY-6R8M=P3	6.8	±20%	100	0.060	1.68
#646FY-100M=P3	10.0	±20%	100	0.070	1.56
#646FY-120M=P3	12.0	±20%	100	0.080	1.44
#646FY-150M=P3	15.0	±20%	100	0.090	1.36
#646FY-180M=P3	18.0	±20%	100	0.100	1.28
#646FY-220M=P3	22.0	±20%	100	0.120	1.17
#646FY-270M=P3	27.0	±20%	100	0.140	1.07
#646FY-330M=P3	33.0	±20%	100	0.160	1.00
#646FY-390M=P3	39.0	±20%	100	0.190	0.91
#646FY-470M=P3	47.0	±20%	100	0.220	0.84
#646FY-560M=P3	56.0	±20%	100	0.290	0.72
#646FY-680M=P3	68.0	±20%	100	0.340	0.66
#646FY-820M=P3	82.0	±20%	100	0.460	0.58
#646FY-101M=P3	100.0	±20%	100	0.550	0.51
#646FY-121K=P3	120.0	±10%	100	0.670	0.42
#646FY-151K=P3	150.0	±10%	100	0.900	0.37
#646FY-181K=P3	180.0	±10%	100	1.050	0.35
#646FY-221K=P3	220.0	±10%	100	1.350	0.29
#646FY-271K=P3	270.0	±10%	100	1.550	0.28
#646FY-331K=P3	330.0	±10%	100	2.050	0.23
#646FY-391K=P3	390.0	±10%	100	2.300	0.21
#646FY-471K=P3	470.0	±10%	100	2.600	0.19

TYPE D75C Series (with Ferrite Shield)

1) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40ºC, whichever is smaller. (Reference ambient temperature 20ºC).

TOKO Part Number	Inductance (µH)	L Tolerance	Test Frequency (kHz)	DC Resistance (Ω) max.	DC Current(1) (A) max.
#646CY-1R0M=P3	1.0	±20%	100	0.020	2.80
#646CY-1R5M=P3	1.5	±20%	100	0.024	2.59
#646CY-2R2M=P3	2.2	±20%	100	0.028	2.38
#646CY-3R3M=P3	3.3	±20%	100	0.034	2.14
#646CY-4R7M=P3	4.7	±20%	100	0.039	1.96
#646CY-6R8M=P3	6.8	±20%	100	0.050	1.79
#646CY-100M=P3	10.0	±20%	100	0.055	1.63
#646CY-120M=P3	12.0	±20%	100	0.073	1.42
#646CY-150M=P3	15.0	±20%	100	0.081	1.33
#646CY-180M=P3	18.0	±20%	100	0.102	1.15
#646CY-220M=P3	22.0	±20%	100	0.115	1.09
#646CY-270M=P3	27.0	±20%	100	0.159	0.91
#646CY-330M=P3	33.0	±20%	100	0.182	0.84
#646CY-390M=P3	39.0	±20%	100	0.199	0.80
#646CY-470M=P3	47.0	±20%	100	0.221	0.75
#646CY-560M=P3	56.0	±20%	100	0.306	0.64
#646CY-680M=P3	68.0	±20%	100	0.345	0.60
#646CY-820M=P3	82.0	±20%	100	0.390	0.57
#646CY-101M=P3	100.0	±20%	100	0.432	0.50
#646CY-121M=P3	120.0	±20%	100	0.44	0.47
#646CY-151M=P3	150.0	±20%	100	0.73	0.40
#646CY-181M=P3	180.0	±20%	100	0.78	0.39
#646CY-221M=P3	220.0	±20%	100	0.94	0.33
#646CY-271M=P3	270.0	±20%	100	1.25	0.31
#646CY-331M=P3	330.0	±20%	100	1.40	0.27
#646CY-391M=P3	390.0	±20%	100	1.52	0.27
#646CY-471M=P3	470.0	±20%	100	1.70	0.25
#646CE-561M=P3	560.0	±20%	100	2.39	0.22

Note: **=P3** is added to each part number to indicate tape and reel packaging.