

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

Frequency Range: 0.1~1MHz

 Inductance Range: 1-100 μ H

 4.7-470 μ H (D73CT)

 1-560 μ H (D75F/C)


D73F



D73C



D73CT



D73LF



D73LC



D75F



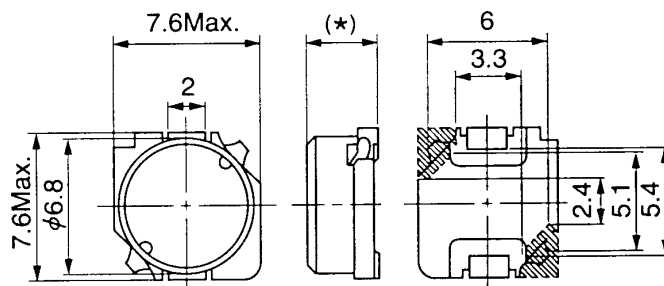
D75C

Features

- Low profile (3.0 ~ 5.1mm max height)
- Inductance range: 1-560 μ H
- 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

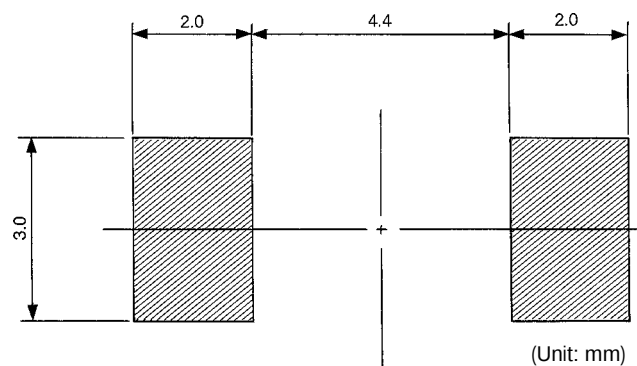
Measurement Condition

- 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.



Unit: mm

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

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 40°C, whichever is smaller. (Reference ambient temperature 20°C).

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 40°C, whichever is smaller. (Reference ambient temperature 20°C).

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 40°C, whichever is smaller. (Reference ambient temperature 20°C).

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 40°C, whichever is smaller. (Reference ambient temperature 20°C).

TYPE D73LF (Unshielded)

TOKO Part Number	Inductance L (μH)	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)	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



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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 40°C, whichever is smaller. (Reference ambient temperature 20°C).

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 40°C, whichever is smaller. (Reference ambient temperature 20°C).

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.