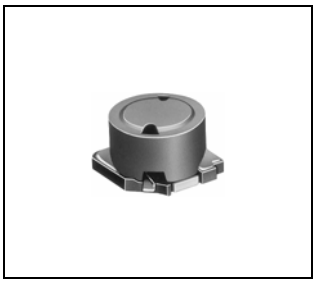
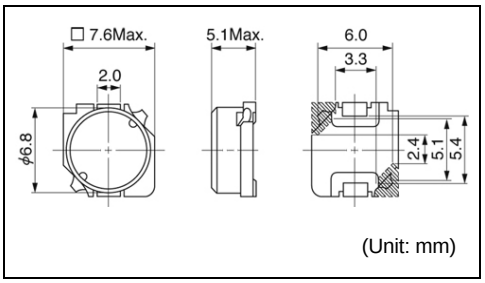
TOKO

High Reliability Ferrite Inductors
高信頼性フェライトインダクタ

DH75C

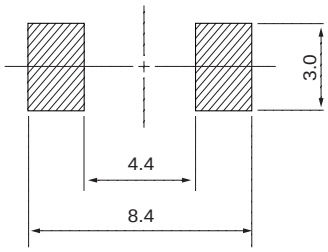
Inductance Range: 1.2~680μH





(Unit: mm)

Recommended patterns
推奨パターン図



(Unit: mm)

FEATURES　特長

- High reliability for vehicle application.
- Operating temperature range : –55°C~+125°C
- Low profile (7.6mm Max. square, 5.1mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.

- 車載機器向け信頼性向上品
- 使用温度範囲：–55°C～+125°C
- 小型薄形構造(7.6mm角Max.　高さ5.1mm Max.)
- 閉磁路構造、低直流抵抗
- 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

TOKO STANDARD PART NUMBERS　東光 標準品一覧

TYPE DH75C (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)	直流重畳許容電流(3)	温度上昇許容電流(3)
TOKO Part Number	Inductance(1) L (μH)	Tolerance (%)	DC Resistance(2) (mΩ) Max.(Typ.)	Inductance Decrease Current(3) (A) Max.(Typ.) $\frac{\Delta L}{L}$ =30%	Temperature Rise Current(3) ΔT=20°C (A) Max.(Typ.)
A1007AY-1R2M	1.2	± 20	22 (17)	4.3 (5.8)	3.0 (3.5)
A1007AY-2R4M	2.4	± 20	29 (23)	3.0 (4.1)	2.5 (3.0)
A1007AY-3R3M	3.3	± 20	32 (25)	2.6 (3.6)	2.3 (2.8)
A1007AY-5R1M	5.1	± 20	39 (31)	2.1 (2.8)	2.1 (2.5)
A1007AY-7R5M	7.5	± 20	46 (37)	1.8 (2.3)	1.9 (2.3)
A1007AY-100M	10	± 20	53 (43)	1.5 (2.0)	1.8 (2.1)
A1007AY-150M	15	± 20	74 (60)	1.2 (1.6)	1.5 (1.7)
A1007AY-220M	22	± 20	105 (86)	0.98 (1.3)	1.2 (1.4)
A1007AY-330M	33	± 20	160 (120)	0.81 (1.1)	0.96 (1.1)
A1007AY-470M	47	± 20	195 (150)	0.68 (0.91)	0.88 (1.0)
A1007AY-680M	68	± 20	300 (240)	0.57 (0.76)	0.69 (0.82)
A1007AY-101M	100	± 20	435 (350)	0.48 (0.65)	0.53 (0.63)
A1007AY-151M	150	± 20	555 (450)	0.38 (0.51)	0.47 (0.56)
A1007AY-221M	220	± 20	795 (650)	0.32 (0.43)	0.40 (0.47)
A1007AY-331M	330	± 20	1320 (1060)	0.26 (0.35)	0.31 (0.37)
A1007AY-471M	470	± 20	1560 (1280)	0.21 (0.29)	0.28 (0.33)
A1007AY-681M	680	± 20	2520 (2060)	0.18 (0.24)	0.22 (0.26)

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent.
Test frequency at 100kHz
(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 25℃)
(3) Maximum allowable DC current is that which inductance decrease current, or temperature rise current, whichever is smaller.
・ Inductance decrease current : The inductance value decreases 30% by the excitation of DC current. (reference ambient temperature 125°C)
・ Temperature rise current : The temperature rises 20°C by excitation of DC current. (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。
測定周波数は100kHz。
(2) 直流抵抗は測定器34420A（Agilent Technologies）または3541（HIOKI）と同等品により測定する。（周囲温度25℃）
(3) 最大許容電流：直流重畳許容電流値と温度上昇許容電流値の何れか小さい値。
・ 直流重畳許容電流：直流重畳特性においてインダクタンス値が30%低下した時の電流値。(周囲温度125°C)
・ 温度上昇許容電流：直流を流した時の巻線温度上昇が20°Cに達する電流値。(周囲温度20°C)