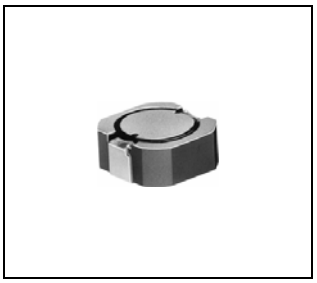
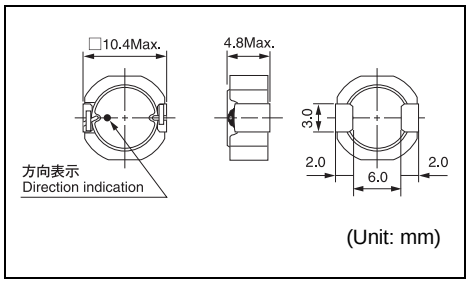
High Reliability Ferrite Inductors
高信頼性フェライトインダクタ

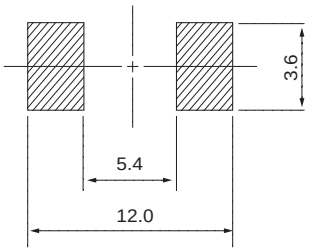
DSH104C

Inductance Range: 1.2~220μH





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
- 10.4mm Max. square, 4.8mm 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
- 10.4mm角Max.　高さ4.8mm 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 DSH104C (With Ferrite Shield) 閉磁路タイプ(リングコア有り) ***(Quantity/reel; 500 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.)
A1008AYW-1R2N	1.2	± 30	12 (10)	8.8 (11.8)	4.8 (5.6)
A1008AYW-1R8N	1.8	± 30	15 (12)	7.1 (9.5)	4.1 (4.8)
A1008AYW-2R7N	2.7	± 30	17 (14)	5.9 (7.9)	3.8 (4.4)
A1008AYW-3R6N	3.6	± 30	20 (16)	5.1 (6.8)	3.5 (4.1)
A1008AYW-4R7N	4.7	± 30	27 (21)	4.4 (5.9)	2.9 (3.4)
A1008AYW-6R2N	6.2	± 30	36 (29)	3.9 (5.2)	2.5 (2.9)
A1008AYW-100M	10	± 20	47 (38)	3.2 (4.3)	2.1 (2.4)
A1008AYW-150M	15	± 20	75 (61)	2.4 (3.3)	1.6 (1.9)
A1008AYW-220M	22	± 20	97 (79)	2.1 (2.9)	1.4 (1.6)
A1008AYW-330M	33	± 20	135 (108)	1.7 (2.3)	1.1 (1.3)
A1008AYW-470M	47	± 20	195 (160)	1.4 (1.9)	0.92 (1.1)
A1008AYW-680M	68	± 20	280 (227)	1.2 (1.6)	0.76 (0.90)
A1008AYW-101M	100	± 20	400 (334)	0.97 (1.3)	0.60 (0.71)
A1008AYW-151M	150	± 20	720 (601)	0.81 (1.1)	0.44 (0.52)
A1008AYW-221M	220	± 20	1010 (843)	0.66 (0.88)	0.37 (0.44)

(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)