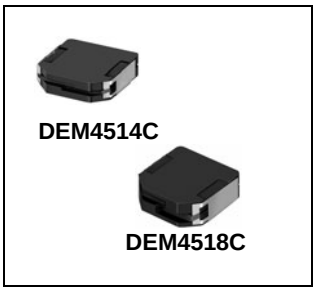
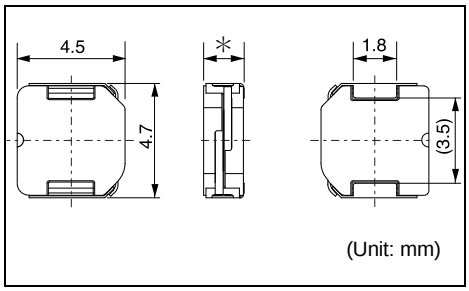
TOKO

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

DEM4514C/DEM4518C

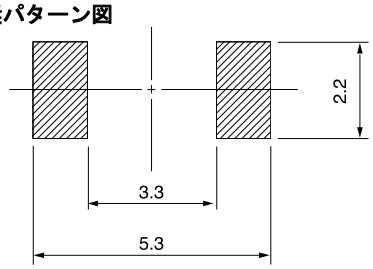
Inductance Range: 1.2~33μH (DEM4514C), 1.2~22μH (DEM4518C)





*DEM4514C: 1.4mm Max.
DEM4518C: 1.8mm Max.

Recommended patterns
推奨パターン図



FEATURES　特長

- Low profile (4.5×4.7mm square, 1.4 and 1.8mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Ideal for a variety of DC-DC converter inductor applications. (DVC,DSC,Cellular phone,PDA)
- RoHS compliant.

- 小型薄形構造(4.5×4.7mm角，高さ1.4および1.8mm Max.)
- 閉磁路構造、低直流抵抗
- 各種機器のDC-DCコンバータ用インダクタに最適 (DVC,DSC,Cellular phone,PDA)
- RoHS指令対応

TOKO STANDARD PART NUMBERS　東光 標準品一覧

TYPE DEM4514C (Magnetically Shielded) 閉磁路タイプ*(Quantity/reel; 2,000 PCS)*

東光品番	インダクタンス(1)	許容差	直流抵抗(2)	直流重量許容電流(3)	温度上昇許容電流(3)
TOKO Part Number	Inductance(1) (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=40°C (A) Max. (Typ.)
1234AS-H-1R2N	1.2	± 30	60 (50)	2.60 (3.45)	2.45 (2.85)
1234AS-H-1R8N	1.8	± 30	72 (60)	2.20 (2.95)	2.20 (2.60)
1234AS-H-2R4M	2.4	± 20	84 (70)	1.90 (2.55)	2.00 (2.35)
1234AS-H-3R3M	3.3	± 20	96 (80)	1.70 (2.25)	1.90 (2.25)
1234AS-H-4R7M	4.7	± 20	120 (100)	1.45 (1.90)	1.55 (1.85)
1234AS-H-6R8M	6.8	± 20	156 (130)	1.20 (1.55)	1.40 (1.65)
1234AS-H-100M	10.0	± 20	192 (160)	1.00 (1.35)	1.25 (1.50)
1234AS-H-120M	12.0	± 20	228 (190)	0.90 (1.20)	1.10 (1.30)
1234AS-H-150M	15.0	± 20	276 (230)	0.80 (1.05)	1.00 (1.20)
1234AS-H-220M	22.0	± 20	444 (370)	0.65 (0.89)	0.75 (0.89)
1234AS-H-330M	33.0	± 20	648 (540)	0.55 (0.75)	0.63 (0.75)

TYPE DEM4518C (Magnetically Shielded) 閉磁路タイプ*(Quantity/reel; 2,000 PCS)*

東光品番	インダクタンス(1)	許容差	直流抵抗(2)	直流重量許容電流(3)	温度上昇許容電流(3)
TOKO Part Number	Inductance(1) (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=40°C (A) Max. (Typ.)
1235AS-H-1R2N	1.2	± 30	47 (39)	3.50 (4.70)	2.90 (3.40)
1235AS-H-1R8N	1.8	± 30	56 (47)	3.00 (3.90)	2.70 (3.20)
1235AS-H-2R4M	2.4	± 20	65 (54)	2.60 (3.40)	2.30 (2.70)
1235AS-H-3R3M	3.3	± 20	74 (62)	2.30 (3.00)	2.10 (2.50)
1235AS-H-4R3M	4.3	± 20	84 (70)	2.00 (2.65)	2.00 (2.40)
1235AS-H-6R8M	6.8	± 20	106 (88)	1.70 (2.20)	1.90 (2.20)
1235AS-H-100M	10.0	± 20	132 (110)	1.30 (1.75)	1.70 (2.00)
1235AS-H-150M	15.0	± 20	192 (160)	0.98 (1.30)	1.10 (1.30)
1235AS-H-220M	22.0	± 20	306 (255)	0.91 (1.20)	1.00 (1.20)

(1) Inductance is measured with a LCR meter 4284A* or equivalent. Test frequency at 100kHz
(2) DC Resistance is measured with a Digital Multimeter TR6871 (ADVANTEST) or equivalent.
(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)
* Agilent Technologies

(1) インダクタンスはLCRメータ4284A* 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30%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。（周囲温度20°Cを基準とする。）
* Agilent Technologies