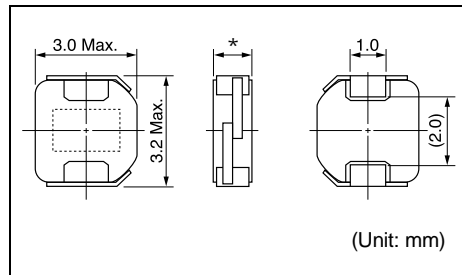
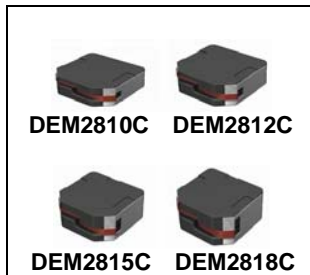


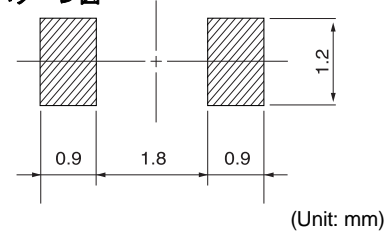
## DEM2810C/DEM2812C/DEM2815C/DEM2818C

Inductance Range: 1.0~12μH (DEM2810C), 0.47~12μH (DEM2812C), 0.47~15μH (DEM2815C), 0.47~12μH (DEM2818C)



\*DEM2810C: 1.0mm Max.  
DEM2812C: 1.2mm Max.  
DEM2815C: 1.5mm Max.  
DEM2818C: 1.8mm Max.

### Recommended patterns 推奨パターン図



### FEATURES 特長

- Low profile (2.8 × 3.0mm square, 1.0/1.2/1.5/1.8mm 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(2.8 × 3.0mm角 高さ1.0/1.2/1.5/1.8mm 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 DEM2810C (Magnetically Shielded) 閉磁路タイプ, (Quantity/reel; 2,000 PCS)

東光品番	インダクタンス <sup>(1)</sup>	許容差	直流抵抗 <sup>(2)</sup>	直流重量許容電流 <sup>(3)</sup>	温度上昇許容電流 <sup>(3)</sup>
TOKO Part Number	Inductance <sup>(1)</sup> (μH)	Tolerance (%)	DC Resistance <sup>(2)</sup> (mΩ) Max. (Typ.)	Inductance Decrease Current <sup>(3)</sup> (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current <sup>(3)</sup> ΔT=40°C (A) Max. (Typ.)
1224AS-H-1R0N	1.0	±30	66 (55)	1.60 (2.10)	1.90 (2.10)
1224AS-H-1R5N	1.5	±30	78 (65)	1.40 (1.80)	1.70 (2.00)
1224AS-H-2R2M	2.2	±20	102 (85)	1.10 (1.40)	1.40 (1.60)
1224AS-H-3R3M	3.3	±20	144 (120)	0.90 (1.20)	1.20 (1.40)
1224AS-H-4R7M	4.7	±20	204 (170)	0.75 (1.00)	1.00 (1.20)
1224AS-H-6R8M	6.8	±20	300 (250)	0.60 (0.80)	0.85 (1.00)
1224AS-H-100M	10.0	±20	432 (360)	0.53 (0.70)	0.71 (0.84)
1224AS-H-120M	12.0	±20	540 (450)	0.49 (0.65)	0.55 (0.65)

#### TYPE DEM2812C (Magnetically Shielded) 閉磁路タイプ, (Quantity/reel; 2,000 PCS)

東光品番	インダクタンス <sup>(1)</sup>	許容差	直流抵抗 <sup>(2)</sup>	直流重量許容電流 <sup>(3)</sup>	温度上昇許容電流 <sup>(3)</sup>
TOKO Part Number	Inductance <sup>(1)</sup> (μH)	Tolerance (%)	DC Resistance <sup>(2)</sup> (mΩ) Max. (Typ.)	Inductance Decrease Current <sup>(3)</sup> (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current <sup>(3)</sup> ΔT=40°C (A) Max. (Typ.)
1225AS-H-R47N	0.47	±30	31 (26)	2.50 (3.40)	3.10 (3.70)
1225AS-H-R68N	0.68	±30	37 (31)	2.00 (2.70)	2.90 (3.40)
1225AS-H-1R0N	1.0	±30	43 (36)	1.80 (2.40)	2.70 (3.20)
1225AS-H-1R5N	1.5	±30	52 (43)	1.50 (2.10)	2.40 (2.80)
1225AS-H-2R2M	2.2	±20	70 (58)	1.20 (1.60)	2.00 (2.40)
1225AS-H-3R3M	3.3	±20	96 (80)	1.00 (1.40)	1.50 (1.80)
1225AS-H-4R7M	4.7	±20	126 (105)	0.88 (1.20)	1.40 (1.60)
1225AS-H-6R8M	6.8	±20	204 (170)	0.72 (0.96)	1.10 (1.30)
1225AS-H-100M	10.0	±20	300 (250)	0.58 (0.77)	0.85 (1.00)
1225AS-H-120M	12.0	±20	350 (290)	0.55 (0.73)	0.76 (0.95)

continued on next page次項へ続く

### TOKO STANDARD PART NUMBERS 東光 標準品一覧

#### TYPE DEM2815C (Magnetically Shielded) 閉磁路タイプ<sup>①</sup>, (Quantity/reel; 2,000 PCS)

東光品番	インダクタンス <sup>(1)</sup>	許容差	直流抵抗 <sup>(2)</sup>	直流重量許容電流 <sup>(3)</sup>	温度上昇許容電流 <sup>(3)</sup>
TOKO Part Number	Inductance <sup>(1)</sup> ( $\mu$ H)	Tolerance (%)	DC Resistance <sup>(2)</sup> (m $\Omega$ ) Max. (Typ.)	Inductance Decrease Current <sup>(3)</sup> (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current <sup>(3)</sup> $\Delta T = 40^\circ\text{C}$ (A) Max. (Typ.)
1226AS-H-R47N	0.47	$\pm 30$	24 (20)	2.90 (3.80)	3.90 (4.60)
1226AS-H-1R0N	1.0	$\pm 30$	32 (27)	2.10 (2.70)	3.30 (3.90)
1226AS-H-1R5N	1.5	$\pm 30$	37 (31)	1.70 (2.30)	2.90 (3.40)
1226AS-H-2R2M	2.2	$\pm 20$	52 (43)	1.40 (1.80)	2.20 (2.60)
1226AS-H-2R7M	2.7	$\pm 20$	63 (53)	1.30 (1.70)	2.00 (2.40)
1226AS-H-3R3M	3.3	$\pm 20$	68 (57)	1.10 (1.50)	1.90 (2.30)
1226AS-H-4R7M	4.7	$\pm 20$	96 (80)	0.95 (1.30)	1.60 (1.90)
1226AS-H-6R8M	6.8	$\pm 20$	156 (130)	0.80 (1.00)	1.20 (1.50)
1226AS-H-100M	10.0	$\pm 20$	216 (180)	0.65 (0.90)	1.00 (1.20)
1226AS-H-120M	12.0	$\pm 20$	275 (228)	0.60 (0.80)	0.85 (1.00)
1226AS-H-150M	15.0	$\pm 20$	324 (270)	0.50 (0.70)	0.80 (0.95)

#### TYPE DEM2818C (Magnetically Shielded) 閉磁路タイプ<sup>①</sup>, (Quantity/reel; 2,000 PCS)

東光品番	インダクタンス <sup>(1)</sup>	許容差	直流抵抗 <sup>(2)</sup>	直流重量許容電流 <sup>(3)</sup>	温度上昇許容電流 <sup>(3)</sup>
TOKO Part Number	Inductance <sup>(1)</sup> ( $\mu$ H)	Tolerance (%)	DC Resistance <sup>(2)</sup> (m $\Omega$ ) Max. (Typ.)	Inductance Decrease Current <sup>(3)</sup> (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current <sup>(3)</sup> $\Delta T = 40^\circ\text{C}$ (A) Max. (Typ.)
1227AS-H-R47N	0.47	$\pm 30$	20 (17)	3.30 (4.40)	4.70 (5.50)
1227AS-H-1R0N	1.0	$\pm 30$	29 (24)	2.30 (3.10)	3.70 (4.30)
1227AS-H-1R5N	1.5	$\pm 30$	32 (27)	2.00 (2.60)	3.40 (4.00)
1227AS-H-2R2M	2.2	$\pm 20$	47 (39)	1.70 (2.20)	2.60 (3.10)
1227AS-H-3R3M	3.3	$\pm 20$	67 (56)	1.30 (1.70)	2.00 (2.40)
1227AS-H-4R7M	4.7	$\pm 20$	92 (77)	1.10 (1.40)	1.80 (2.10)
1227AS-H-6R8M	6.8	$\pm 20$	146 (122)	0.90 (1.20)	1.30 (1.50)
1227AS-H-100M	10.0	$\pm 20$	204 (170)	0.75 (1.00)	1.20 (1.40)
1227AS-H-120M	12.0	$\pm 20$	258 (215)	0.65 (0.87)	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, coil temperature to rise by 40°C whichever is smaller.  
(Reference ambient temperature 20°C)

- (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、直流重量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

\* Agilent Technologies