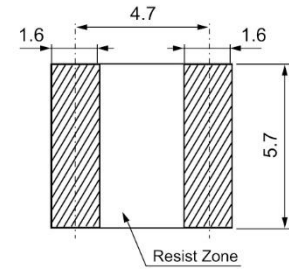
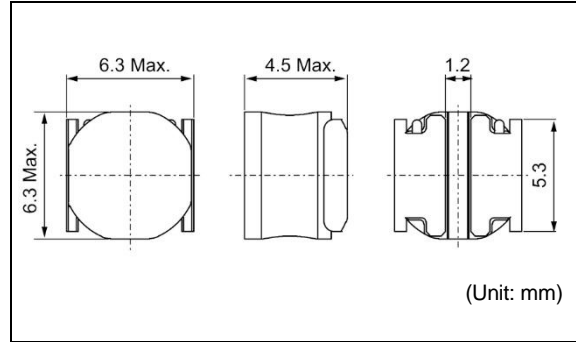


# DG6045C

Inductance Range: 1.0~100μH


**Recommended patterns**  
 推奨パターン図

**FEATURES 特長**

- Low Profile (H=4.5mm Max.)
- Magnetic Shield.
- Ideal for a variety of DC-DC converter inductor applications.
- 薄形構造(高さ4.5mm Max.)
- 閉磁路構造
- 各種機器のDC-DCコンバータ用インダクタに最適

**STANDARD PART NUMBERS 標準品一覧**
**TYPE DG6045C (Quantity/reel; 1500 PCS)**

| 品番             | インダクタンス <sup>(1)</sup>             | 許容差           | 測定周波数                | 直流抵抗 <sup>(2)</sup>                             | 直流重畳許容電流 <sup>(3)</sup>  | 温度上昇許容電流 <sup>(4)</sup>   |
|----------------|------------------------------------|---------------|----------------------|---|--|---|
| Part Number    | Inductance <sup>(1)</sup><br>L(μH) | Tolerance (%) | Test Frequency (KHz) | DC Resistance <sup>(2)</sup><br>(mΩ)Max. (Typ.) | Inductance Decrease Current <sup>(3)</sup><br>(A) Max. (Typ.)<br>$\frac{\Delta L}{L} = 30\%$ | Temperature Rise Current <sup>(4)</sup><br>$\Delta T = 40^\circ\text{C}$<br>(A) Max. (Typ.) |
| 1255AY-1R0N=P3 | 1.0                                | ±30           | 100                  | 12.0 (10)                                       | 9.5(13)  | 6.5(8.1)  |
| 1255AY-1R2N=P3 | 1.2                                | ±30           | 100                  | 14.4 (12)                                       | 8.4 (11)   | 5.9 (7.4)   |
| 1255AY-1R8N=P3 | 1.8                                | ±30           | 100                  | 16.8 (14)                                       | 6.8 (9.1)  | 5.3 (6.6)   |
| 1255AY-2R2N=P3 | 2.2                                | ±30           | 100                  | 19.2 (16)                                       | 6.3 (8.4)  | 4.7 (5.9)   |
| 1255AY-2R7N=P3 | 2.7                                | ±30           | 100                  | 21.6 (18)                                       | 5.6 (7.5)  | 4.6 (5.7)   |
| 1255AY-3R3N=P3 | 3.3                                | ±30           | 100                  | 25.2 (21)                                       | 5.2 (6.9)  | 4.4 (5.5)   |
| 1255AY-3R9N=P3 | 3.9                                | ±30           | 100                  | 26.4 (22)                                       | 4.7 (6.3)  | 4.2 (5.2)   |
| 1255AY-4R7M=P3 | 4.7                                | ±20           | 100                  | 27.6 (23)                                       | 4.5 (6.0)  | 4.0 (4.7)   |
| 1255AY-6R8M=P3 | 6.8                                | ±20           | 100                  | 43.2 (36)                                       | 3.6 (4.8)  | 3.4 (4.2)   |
| 1255AY-100M=P3 | 10                                 | ±20           | 100                  | 56.4 (47)                                       | 3.1 (4.1)  | 2.9 (3.6)   |
| 1255AY-150M=P3 | 15                                 | ±20           | 100                  | 75.6 (63)                                       | 2.5 (3.3)  | 2.4 (3.0)   |
| 1255AY-220M=P3 | 22                                 | ±20           | 100                  | 117.6 (98)                                      | 2.0 (2.7)  | 1.9 (2.4)   |
| 1255AY-270M=P3 | 27                                 | ±20           | 100                  | 162.0 (135)                                     | 1.8 (2.4)  | 1.8 (2.1)   |
| 1255AY-330M=P3 | 33                                 | ±20           | 100                  | 174.0 (145)                                     | 1.7 (2.2)  | 1.5 (1.9)   |
| 1255AY-470M=P3 | 47                                 | ±20           | 100                  | 252.0 (210)                                     | 1.4 (1.9)  | 1.3 (1.6)   |
| 1255AY-680M=P3 | 68                                 | ±20           | 100                  | 372.0 (310)                                     | 1.2 (1.6)  | 1.0 (1.3)   |
| 1255AY-101M=P3 | 100                                | ±20           | 100                  | 552.0 (460)                                     | 0.9 (1.2)  | 0.9 (1.1)   |

(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°C)

(3) Inductance Decrease Current based upon 30% inductance reduction from the initial value

(4) Temperature Rise Current based upon 40°C temperature rise. (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°C)

(3) 直流重畳許容電流: 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

(4) 温度上昇許容電流: コイルの温度が40°C上昇する値 (周囲温度20°Cを基準とする。)