

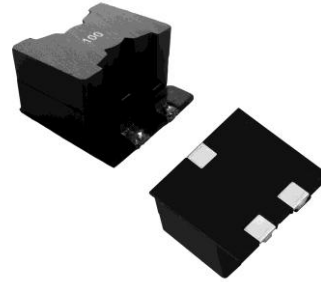


SMTPQ2614 SERIES

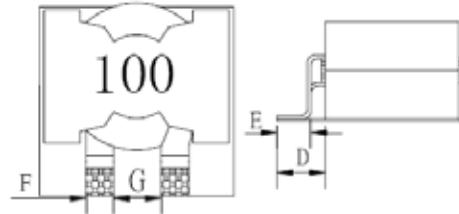
SHIELDED SMT POWER INDUCTORS

Applications :

- Desktop/server applications.
- Battery Power equipment.
- DC/DC converters.
- Power supplier, etc.



Shape and Dimensions (Dimensions are in mm) :



| Item | A Max. | B Max. | C Max. |
|-----------|--------|--------|--------|
| SMTPQ2614 | 27.9 | 26.9 | 15.9 |

| Item | D | E | F | G |
|-----------|-----|-----|-----|-----|
| SMTPQ2614 | 6.9 | 3.8 | 4.0 | 6.1 |

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10%(M:20%) lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -40°C to 105°C.

Product identification :

SMT PQ2614L - 100 M

(1) (2) (3) (4)

- (1) Type: **Surface Mountable Type.**
- (2) Style: Flat wire with **ER** core and **L** or **H** is used for a big Current type instead of PQ2614.
- (3) Inductance : **100** for **10** uH.
- (4) Inductance tolerance : **M**:± 20%. **K**:± 10%.

Test equipments :

- Inductance measured at 0A_{dc} on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C.



● **SMTPQ2614 series**

| Part No. | Stamp | Inductance L (uH) | Test Freq. (0.1V) | DCR (mΩ) Max. (Typ.) | I sat (A) Max. | I rms (A) Max. |
|-----------------|-------|-------------------|-------------------|----------------------|----------------|----------------|
| SMTPQ2614L-1R5M | 1R5 | 1.5 | 500 KHz | 1.65 (1.5) | 100.0 | 30.0 |
| SMTPQ2614L-2R2M | 2R2 | 2.2 | 500 KHz | 1.65 (1.5) | 82.0 | 30.0 |
| SMTPQ2614L-3R3M | 3R3 | 3.3 | 500 KHz | 1.65 (1.5) | 48.0 | 30.0 |
| SMTPQ2614L-4R7M | 4R7 | 4.7 | 500 KHz | 1.65 (1.5) | 33.0 | 30.0 |
| SMTPQ2614L-6R8M | 6R8 | 6.8 | 500 KHz | 1.65 (1.5) | 22.0 | 30.0 |
| SMTPQ2614L-100K | 100 | 10.0 | 500 KHz | 1.65 (1.5) | 13.0 | 30.0 |
| SMTPQ2614L-150K | 150 | 15.0 | 500 KHz | 1.65 (1.5) | 7.5 | 30.0 |
| SMTPQ2614L-220K | 220 | 22.0 | 500 KHz | 1.65 (1.5) | 4.5 | 30.0 |
| SMTPQ2614L-330K | 330 | 33.0 | 500 KHz | 1.65 (1.5) | 2.0 | 30.0 |

| Part No. | Stamp | Inductance L (uH) | Test Freq. (1.0V) | DCR (mΩ) Max. (Typ.) | I sat (A) Max. | I rms (A) Max. |
|-----------------|-------|-------------------|-------------------|----------------------|----------------|----------------|
| SMTPQ2614H-2R2M | 2R2 | 2.2 | 500 KHz | 2.05 (1.86) | 100.0 | 30.0 |
| SMTPQ2614H-3R3M | 3R3 | 3.3 | 500 KHz | 2.05 (1.86) | 62.0 | 30.0 |
| SMTPQ2614H-4R7M | 4R7 | 4.7 | 500 KHz | 2.05 (1.86) | 42.0 | 30.0 |
| SMTPQ2614H-6R8M | 6R8 | 6.8 | 500 KHz | 2.05 (1.86) | 30.0 | 30.0 |
| SMTPQ2614H-100K | 100 | 10.0 | 500 KHz | 2.05 (1.86) | 18.0 | 30.0 |
| SMTPQ2614H-150K | 150 | 15.0 | 500 KHz | 2.05 (1.86) | 11.5 | 30.0 |
| SMTPQ2614H-220K | 220 | 22.0 | 500 KHz | 2.05 (1.86) | 7.0 | 30.0 |
| SMTPQ2614H-330K | 330 | 33.0 | 500 KHz | 2.05 (1.86) | 4.0 | 30.0 |

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.