

# SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE4030

SMD Magnetic-resin shielded type

UNIT : mm

## TYPE SPE4030

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 0.91 ~ 100uH

## Features

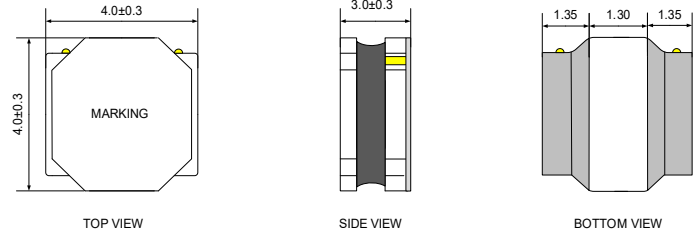
\*Low profile (3.0mm high)

\*Suitable for reflow soldering

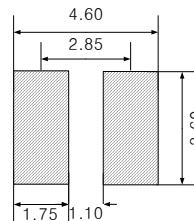
\*Available on tape and reel for automatic insertion

\*Pass the AEC-Q200 Certification Test

## Dimensions



## Recommended PCB Pattern



## Electrical Characteristics

| Ordering code | Inductance range (μH) | DCR(mΩ±30%) | Rated current<br>(A,max) | Temperature rise<br>current (A,max) | Marking |
|---------------|-----------------------|-------------|--------------------------|-------------------------------------|---------|
| SPE4030-R91N  | 0.91±30%              | 18          | 6.3                      | 4.0                                 | R91     |
| SPE4030-1R2N  | 1.2±30%               | 21          | 5.8                      | 3.5                                 | 1R2     |
| SPE4030-1R5N  | 1.5±30%               | 24          | 5.0                      | 3.2                                 | 1R5     |
| SPE4030-2R2N  | 2.2±30%               | 31          | 4.3                      | 2.8                                 | 2R2     |
| SPE4030-3R0N  | 3.0±30%               | 39          | 3.5                      | 2.4                                 | 3R0     |
| SPE4030-3R6N  | 3.6±30%               | 49          | 3.3                      | 2.2                                 | 3R6     |
| SPE4030-4R7M  | 4.7±20%               | 67          | 2.9                      | 2.0                                 | 4R7     |
| SPE4030-5R6M  | 5.6±20%               | 73          | 2.7                      | 1.9                                 | 5R6     |
| SPE4030-6R8M  | 6.8±20%               | 92          | 2.4                      | 1.8                                 | 6R8     |
| SPE4030-7R5M  | 7.5±20%               | 99          | 2.2                      | 1.6                                 | 7R5     |
| SPE4030-8R2M  | 8.2±20%               | 128         | 2.1                      | 1.5                                 | 8R2     |
| SPE4030-100M  | 10±20%                | 138         | 1.95                     | 1.4                                 | 100     |
| SPE4030-120M  | 12±20%                | 170         | 1.7                      | 1.3                                 | 120     |
| SPE4030-150M  | 15±20%                | 212         | 1.5                      | 1.0                                 | 150     |
| SPE4030-180M  | 18±20%                | 236         | 1.4                      | 0.95                                | 180     |
| SPE4030-220M  | 22±20%                | 355         | 1.2                      | 0.90                                | 220     |
| SPE4030-330M  | 33±20%                | 440         | 1.0                      | 0.80                                | 330     |
| SPE4030-470M  | 47±20%                | 705         | 0.85                     | 0.70                                | 470     |
| SPE4030-560M  | 56±20%                | 810         | 0.80                     | 0.60                                | 560     |
| SPE4030-680M  | 68±20%                | 920         | 0.72                     | 0.50                                | 680     |
| SPE4030-820M  | 82±20%                | 1.25Ω       | 0.66                     | 0.46                                | 820     |
| SPE4030-101M  | 100±20%               | 1.37Ω       | 0.60                     | 0.45                                | 101     |

## Standard Parts selection Guide

\*Inductance : Agilent 4285A (100kHz, 1.0V)

\*DCR Meter : ABM3245 (20mΩ~2MΩ)

\*Bias Current : Agilent 4285A + Agilent 42841A

\*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

\*Inductance drop = 30% at rated current / 판정기준 :3초이내 측정

Note: It is developing excepts the thing which we produced