

# SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE3015

SMD Magnetic-resin shielded type

UNIT : mm

## TYPE SPE3015

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 47uH

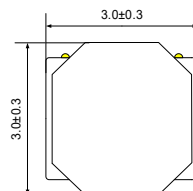
## Features

\*Low profile (1.5mm high)

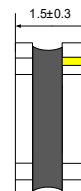
\*Suitable for reflow soldering

\*Available on tape and reel for automatic insertion

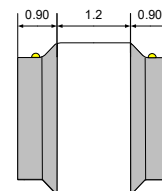
## Dimensions



TOP VIEW

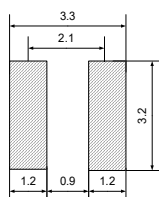


SIDE VIEW



BOTTOM VIEW

## 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 |
|---------------|-----------------------|-------------|--------------------------|-------------------------------------|---------|
| SPE3015-1R0N  | 1.0±30%               | 30          | 2.3                      | 2.2                                 | -       |
| SPE3015-1R2N  | 1.2±30%               | 36          | 2.2                      | 1.9                                 | -       |
| SPE3015-1R5N  | 1.5±30%               | 45          | 2.1                      | 1.6                                 | -       |
| SPE3015-1R8N  | 1.8±30%               | 50          | 1.8                      | 1.5                                 | -       |
| SPE3015-2R2N  | 2.2±30%               | 60          | 1.6                      | 1.4                                 | -       |
| SPE3015-2R7N  | 2.7±30%               | 79          | 1.5                      | 1.3                                 | -       |
| SPE3015-3R3N  | 3.3±30%               | 85          | 1.3                      | 1.2                                 | -       |
| SPE3015-4R7M  | 4.7±20%               | 125         | 1.1                      | 1.0                                 | -       |
| SPE3015-5R6M  | 5.6±20%               | 150         | 1.0                      | 0.95                                | -       |
| SPE3015-6R8M  | 6.8±20%               | 200         | 0.9                      | 0.85                                | -       |
| SPE3015-8R2M  | 8.2±20%               | 225         | 0.8                      | 0.75                                | -       |
| SPE3015-100M  | 10±20%                | 255         | 0.72                     | 0.70                                | -       |
| SPE3015-120M  | 12±20%                | 360         | 0.65                     | 0.60                                | -       |
| SPE3015-150M  | 15±20%                | 460         | 0.60                     | 0.55                                | -       |
| SPE3015-180M  | 18±20%                | 500         | 0.55                     | 0.49                                | -       |
| SPE3015-220M  | 22±20%                | 520         | 0.50                     | 0.47                                | -       |
| SPE3015-330M  | 33±20%                | 920         | 0.40                     | 0.37                                | -       |
| SPE3015-470M  | 47±20%                | 1.60Ω       | 0.35                     | 0.30                                | -       |

## 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