

## POE Series

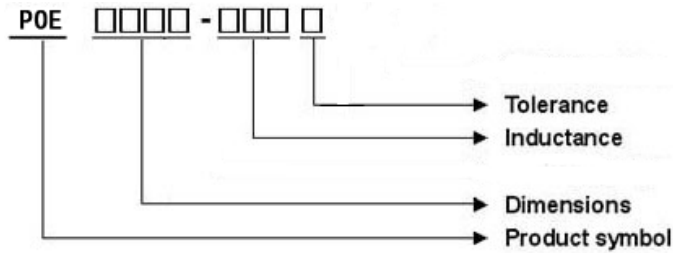
### Features

- RoHS compliant
- High energy storage and very low resistance.
- Smallest size and high performance

### Applications

- Notebook computers, Step-up and step-down converters
- Flash, memory programmers. etc..

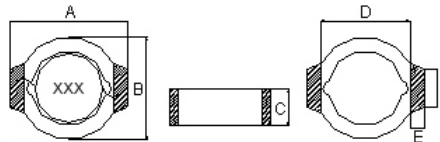
### Product Identification



### Shapes and Dimensions

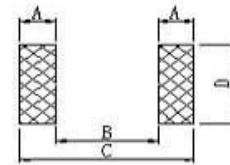
### Recommended Pattern

#### POE 04LP



Dimensions in mm

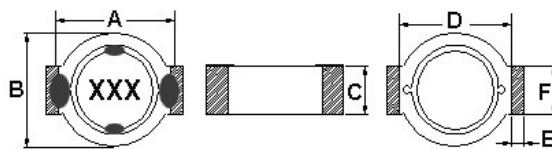
| TYPE    | A                 | B                 | C       | D      | E      | F      |
|---------|-------------------|-------------------|---------|--------|--------|--------|
| POE04LP | 6.5 <sup>+0</sup> | 5.6 <sup>+0</sup> | 1.0±0.2 | 4.8Ref | 0.8Ref | 2.0Ref |



Dimensions in mm

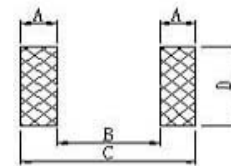
| TYPE    | A    | B    | C    | D    |
|---------|------|------|------|------|
| POE04LP | 1.40 | 4.06 | 6.86 | 3.56 |

#### POE0400



Dimensions in mm

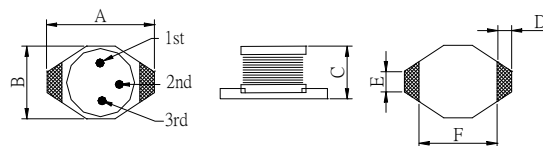
| TYPE    | A                 | B                 | C                 | D      | E      | F      |
|---------|-------------------|-------------------|-------------------|--------|--------|--------|
| POE0400 | 6.5 <sup>+0</sup> | 5.6 <sup>+0</sup> | 2.0 <sup>+0</sup> | 4.8Ref | 0.8Ref | 2.0Ref |



Dimensions in mm

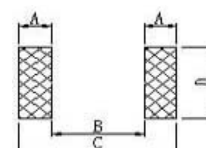
| TYPE    | A    | B    | C    | D    |
|---------|------|------|------|------|
| POE0400 | 1.40 | 4.06 | 6.86 | 3.56 |

#### POE0402



Dimensions in mm

| TYPE    | A                  | B                  | C                  | D    | E    | F    |
|---------|--------------------|--------------------|--------------------|------|------|------|
| POE0402 | 6.60 <sup>+0</sup> | 4.45 <sup>+0</sup> | 2.92 <sup>+0</sup> | 1.02 | 1.27 | 4.32 |

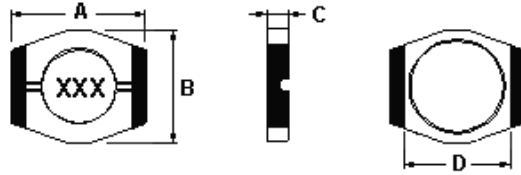


Dimensions in mm

| TYPE    | A    | B    | C    | D    |
|---------|------|------|------|------|
| POE0402 | 1.40 | 4.06 | 6.86 | 3.56 |

**POE 0614**

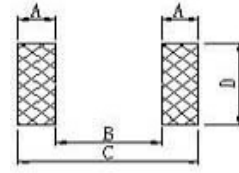
**Shapes and Dimensions**



Dimensions in mm

| A                  | B                  | C                  | D                  |
|--------------------|--------------------|--------------------|--------------------|
| 9.14 <sup>+0</sup> | 7.87 <sup>+0</sup> | 1.65 <sup>+0</sup> | 7.24 <sup>+0</sup> |

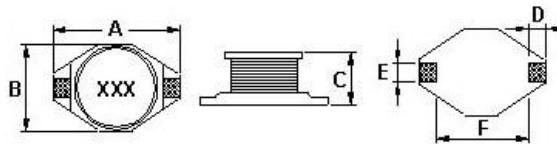
**Recommended Pattern**



Dimensions in mm

| A    | B    | C    | D    |
|------|------|------|------|
| 1.21 | 7.24 | 9.66 | 5.84 |

**POE0802/ 0804/ 0810**



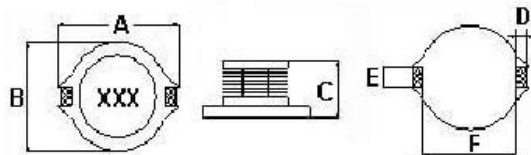
Dimensions in mm

| TYPE    | A                   | B                  | C                  | D    | E    | F    |
|---------|---------------------|--------------------|--------------------|------|------|------|
| POE0802 | 12.95 <sup>+0</sup> | 9.4 <sup>+0</sup>  | 3.0 <sup>+0</sup>  | 2.54 | 2.54 | 7.62 |
| POE0804 | 12.95 <sup>+0</sup> | 9.40 <sup>+0</sup> | 5.21 <sup>+0</sup> | 2.54 | 2.54 | 7.62 |
| POE0810 | 12.95 <sup>+0</sup> | 9.40 <sup>+0</sup> | 11.43 <sup>+</sup> | 2.54 | 2.54 | 7.62 |

Dimension in mm

| TYPE    | A    | B    | C     | D    |
|---------|------|------|-------|------|
| POE0802 | 2.92 | 7.37 | 13.21 | 2.79 |
| POE0804 | 2.92 | 7.37 | 13.21 | 2.79 |
| POE0810 | 2.92 | 7.37 | 13.21 | 2.79 |

**POE1306**



Dimensions in mm

| TYPE    | A                   | B                   | C                  | D    | E    | F    |
|---------|---------------------|---------------------|--------------------|------|------|------|
| POE1306 | 18.54 <sup>+0</sup> | 15.24 <sup>+0</sup> | 7.11 <sup>+0</sup> | 2.54 | 2.54 | 12.7 |

Dimension in mm

| TYPE    | A    | B     | C     | D    |
|---------|------|-------|-------|------|
| POE1306 | 2.92 | 12.45 | 18.29 | 2.79 |

## Electrical Characteristics

| Part Number  | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | DC Resistance<br>( $\Omega$ ) Max | I sat <sup>②</sup><br>(A) | I rms <sup>③</sup><br>(A) |
|--------------|---------------------------------------|-------------------------|-----------------------------------|---------------------------|---------------------------|
| POE04LP-1R2M | 1.2                                   | 20                      | 0.08                              | 2.10                      | 3.60                      |
| POE04LP-1R5M | 1.5                                   | 20                      | 0.10                              | 1.90                      | 2.80                      |
| POE04LP-2R2M | 2.2                                   | 20                      | 0.12                              | 1.60                      | 2.40                      |
| POE04LP-3R3M | 3.3                                   | 20                      | 0.16                              | 1.30                      | 2.00                      |
| POE04LP-4R7M | 4.7                                   | 20                      | 0.20                              | 1.10                      | 1.70                      |
| POE04LP-6R8M | 6.8                                   | 20                      | 0.32                              | 0.90                      | 1.20                      |
| POE04LP-100M | 10                                    | 20                      | 0.41                              | 0.80                      | 1.10                      |
| POE04LP-150M | 15                                    | 20                      | 0.55                              | 0.65                      | 0.90                      |
| POE04LP-220M | 22                                    | 20                      | 0.85                              | 0.50                      | 0.83                      |
| POE04LP-330M | 33                                    | 20                      | 1.30                              | 0.40                      | 0.62                      |
| POE04LP-470M | 47                                    | 20                      | 1.80                              | 0.35                      | 0.52                      |
| POE04LP-680M | 68                                    | 20                      | 2.50                              | 0.30                      | 0.35                      |
| POE04LP-101M | 100                                   | 20                      | 3.50                              | 0.25                      | 0.27                      |
| POE04LP-151M | 150                                   | 20                      | 5.00                              | 0.18                      | 0.24                      |
| POE04LP-221M | 220                                   | 20                      | 7.00                              | 0.16                      | 0.23                      |
| POE04LP-331M | 330                                   | 20                      | 15.0                              | 0.13                      | 0.13                      |

1. Inductance tested at 100 KHz, 0.1 Vrms.

2. Inductance drop = 10% typ. at Isat.

3.  $\Delta T = 40^\circ\text{C}$  rise typ at Irms.

● Tolerance: M =  $\pm 20\%$

● Operating temperature range  $-40^\circ\text{C} \sim 125^\circ\text{C}$  (Including self - temperature rise )

## Electrical Characteristics

| Part Number   | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | DC Resistance<br>( $\Omega$ ) Max | I sat <sup>②</sup><br>(A) | I rms <sup>③</sup><br>(A) |
|---------------|---------------------------------------|-------------------------|-----------------------------------|---------------------------|---------------------------|
| POE0400 -1R0M | 1.0                                   | 20                      | 0.05                              | 2.50                      | 2.3                       |
| POE0400 -1R5M | 1.5                                   | 20                      | 0.06                              | 2.20                      | 2.1                       |
| POE0400 -2R2M | 2.2                                   | 20                      | 0.07                              | 1.80                      | 1.7                       |
| POE0400 -3R3M | 3.3                                   | 20                      | 0.12                              | 1.40                      | 1.3                       |
| POE0400 -4R7M | 4.7                                   | 20                      | 0.15                              | 1.20                      | 1.1                       |
| POE0400 -6R8M | 6.8                                   | 20                      | 0.20                              | 1.10                      | 1.0                       |
| POE0400 -100M | 10                                    | 20                      | 0.30                              | 1.00                      | 0.90                      |
| POE0400 -150M | 15                                    | 20                      | 0.40                              | 0.80                      | 0.70                      |
| POE0400 -220M | 22                                    | 20                      | 0.54                              | 0.60                      | 0.50                      |
| POE0400 -330M | 33                                    | 20                      | 0.74                              | 0.50                      | 0.45                      |
| POE0400 -470M | 47                                    | 20                      | 1.1                               | 0.45                      | 0.40                      |
| POE0400 -680M | 68                                    | 20                      | 1.6                               | 0.35                      | 0.35                      |
| POE0400 -101M | 100                                   | 20                      | 2.3                               | 0.30                      | 0.30                      |
| POE0400 -151M | 150                                   | 20                      | 3.5                               | 0.25                      | 0.25                      |
| POE0400 -221M | 220                                   | 20                      | 5.7                               | 0.20                      | 0.18                      |
| POE0400 -331M | 330                                   | 20                      | 8.2                               | 0.16                      | 0.16                      |
| POE0400 -471M | 470                                   | 20                      | 10.8                              | 0.14                      | 0.12                      |
| POE0400 -681M | 680                                   | 20                      | 17.2                              | 0.12                      | 0.10                      |
| POE0400 -102M | 1000                                  | 20                      | 22.6                              | 0.08                      | 0.08                      |

1. Inductance tested at 100 KHz, 0.1 Vrms.

2. Inductance drop = 10% typ. at Isat.

3.  $\Delta T = 40^{\circ}\text{C}$  rise typ at Irms.

● Tolerance: M =  $\pm 20\%$

● Operating temperature range –  $40^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise )

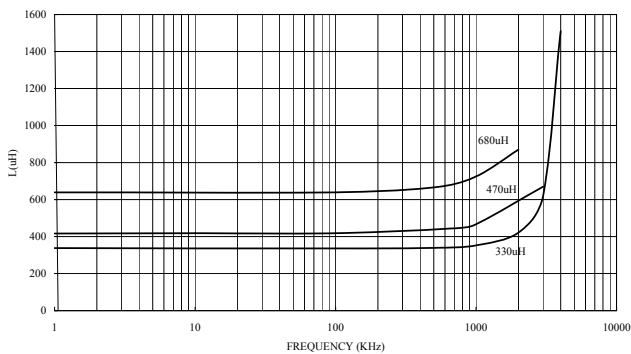
## Electrical Characteristics

| Part Number   | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | SRF<br>(MHz) Typ | DC Resistance<br>( $\Omega$ ) Max | Isat <sup>②</sup><br>(A) | Irms <sup>③</sup><br>(A) |
|---------------|---------------------------------------|-------------------------|------------------|-----------------------------------|--------------------------|--------------------------|
| POE0402 -1R0M | 1.0                                   | 20                      | 130              | 0.05                              | 2.90                     | 2.9                      |
| POE0402 -1R5M | 1.5                                   | 20                      | 115              | 0.05                              | 2.60                     | 2.8                      |
| POE0402 -2R2M | 2.2                                   | 20                      | 90               | 0.07                              | 2.30                     | 2.4                      |
| POE0402 -3R3M | 3.3                                   | 20                      | 70               | 0.08                              | 2.00                     | 2.0                      |
| POE0402 -4R7M | 4.7                                   | 20                      | 50               | 0.09                              | 1.50                     | 1.5                      |
| POE0402 -6R8M | 6.8                                   | 20                      | 45               | 0.13                              | 1.20                     | 1.4                      |
| POE0402 -100M | 10                                    | 20                      | 35               | 0.16                              | 1.10                     | 1.1                      |
| POE0402 -150M | 15                                    | 20                      | 30               | 0.23                              | 0.90                     | 1.2                      |
| POE0402 -220M | 22                                    | 20                      | 20               | 0.37                              | 0.70                     | 0.8                      |
| POE0402 -330M | 33                                    | 20                      | 15               | 0.51                              | 0.58                     | 0.6                      |
| POE0402 -470M | 47                                    | 20                      | 14               | 0.64                              | 0.50                     | 0.5                      |
| POE0402 -680M | 68                                    | 20                      | 11               | 0.86                              | 0.40                     | 0.4                      |
| POE0402 -101M | 100                                   | 20                      | 9                | 1.27                              | 0.31                     | 0.3                      |
| POE0402 -151M | 150                                   | 20                      | 6                | 2.00                              | 0.27                     | 0.25                     |
| POE0402 -221M | 220                                   | 20                      | 5.5              | 3.11                              | 0.22                     | 0.20                     |
| POE0402 -331M | 330                                   | 20                      | 5                | 3.80                              | 0.18                     | 0.16                     |
| POE0402 -471M | 470                                   | 20                      | 4                | 5.06                              | 0.16                     | 0.15                     |
| POE0402 -681M | 680                                   | 20                      | 3                | 9.20                              | 0.14                     | 0.12                     |
| POE0402 -102M | 1000                                  | 20                      | 2                | 13.8                              | 0.10                     | 0.07                     |

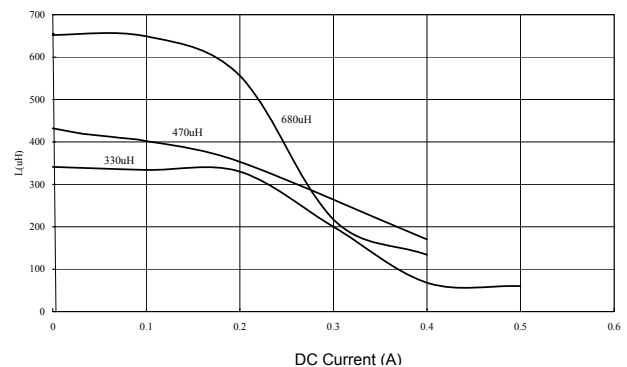
1. Inductance tested at 100 KHz, 0.1 Vrms.
  2. Inductance drop = 20% typ. at Isat.
  3.  $\Delta T = 30^{\circ}\text{C}$  rise typ at I rms.
- Tolerance: M =  $\pm 20\%$
  - Operating temperature range  $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)

## Test Instruments :

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Inductance vs. DC Current



## Electrical Characteristics

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | D.C. Resistance<br>( $\Omega$ ) Max | Isat<br>(A) |
|----------------|--------------------------|-------------------------|-------------------------------------|-------------|
| POE 0614 -4R7M | 4.7                      | 20                      | 0.145                               | 1.60        |
| POE 0614 -6R8M | 6.8                      | 20                      | 0.165                               | 1.30        |
| POE 0614 -100M | 10                       | 20                      | 0.240                               | 1.00        |
| POE 0614 -150M | 15                       | 20                      | 0.300                               | 0.90        |
| POE 0614 -220M | 22                       | 20                      | 0.420                               | 0.70        |
| POE 0614 -330M | 33                       | 20                      | 0.550                               | 0.60        |
| POE 0614 -470M | 47                       | 20                      | 0.765                               | 0.40        |
| POE 0614 -680M | 68                       | 20                      | 1.10                                | 0.40        |
| POE 0614 -101M | 100                      | 20                      | 1.60                                | 0.30        |
| POE 0614 -151M | 150                      | 20                      | 2.50                                | 0.25        |
| POE 0614 -221M | 220                      | 20                      | 3.65                                | 0.22        |
| POE 0614 -331M | 330                      | 20                      | 4.65                                | 0.18        |
| POE 0614 -471M | 470                      | 20                      | 6.75                                | 0.14        |
| POE 0614 -681M | 680                      | 20                      | 9.15                                | 0.12        |
| POE 0614 -102M | 1000                     | 20                      | 14.2                                | 0.10        |

- Inductance tested at 100 KHz, 0.1 Vrms.I
- Inductance drop = 10% typ. at Isat
- Tolerance: M =  $\pm$ 20%

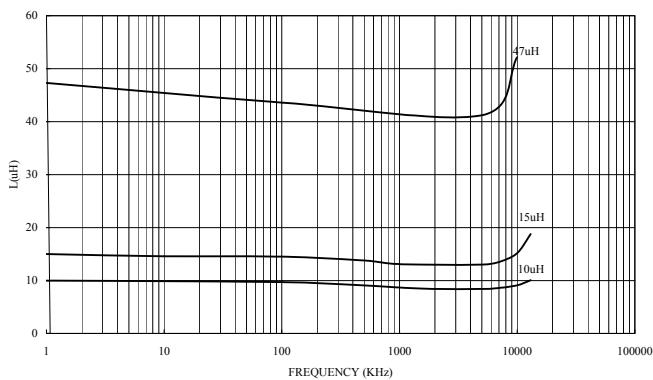
## Electrical Characteristics

| Part Number   | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm\%$ ) | SRF<br>(MHz) Typ | DC Resistance<br>( $\Omega$ ) Max | Isat <sup>②</sup><br>(A) | Irms <sup>③</sup><br>(A) |
|---------------|---------------------------------------|--------------------------|------------------|-----------------------------------|--------------------------|--------------------------|
| POE0802 -100M | 10                                    | 20                       | 35               | 0.09                              | 2.4                      | 2.0                      |
| POE0802 -150M | 15                                    | 20                       | 33               | 0.12                              | 2.0                      | 1.5                      |
| POE0802 -220M | 22                                    | 20                       | 25               | 0.19                              | 1.6                      | 1.3                      |
| POE0802 -330M | 33                                    | 20                       | 19               | 0.25                              | 1.4                      | 1.1                      |
| POE0802 -470M | 47                                    | 20                       | 14               | 0.32                              | 1.0                      | 0.8                      |
| POE0802 -680M | 68                                    | 20                       | 12               | 0.55                              | 0.9                      | 0.7                      |
| POE0802 -101M | 100                                   | 20                       | 10               | 0.70                              | 0.7                      | 0.6                      |
| POE0802 -151M | 150                                   | 20                       | 8                | 1.00                              | 0.6                      | 0.5                      |
| POE0802 -221M | 220                                   | 20                       | 6                | 1.60                              | 0.5                      | 0.4                      |
| POE0802 -331M | 330                                   | 20                       | 5                | 2.20                              | 0.4                      | 0.3                      |
| POE0802 -471M | 470                                   | 20                       | 4                | 3.30                              | 0.3                      | 0.2                      |
| POE0802 -681M | 680                                   | 20                       | 3                | 4.40                              | 0.2                      | 0.1                      |
| POE0802 -102M | 1000                                  | 20                       | 2.5              | 7.00                              | 0.1                      | 0.05                     |

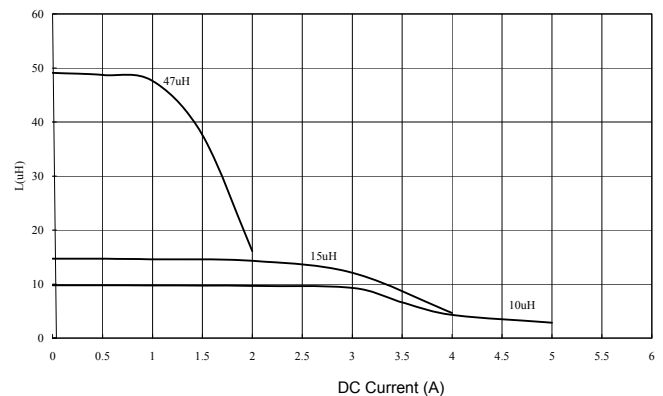
1. Inductance tested at 100 KHz, 0.1 Vrms.
  2. Inductance drop = 20% typ. at Isat.
  3.  $\Delta T = 30^\circ\text{C}$  rise typ at Irms.
- Tolerance: M =  $\pm 20\%$
  - Operating temperature range  $-40^\circ\text{C} \sim 125^\circ\text{C}$  (Including self - temperature rise)

## Test Instruments :

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Inductance vs. DC Current



## Electrical Characteristics

| Part Number   | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | SRF<br>(MHz) Typ | DC Resistance<br>( $\Omega$ ) Max | Isat <sup>②</sup><br>(A) | Irms <sup>③</sup><br>(A) |
|---------------|---------------------------------------|-------------------------|------------------|-----------------------------------|--------------------------|--------------------------|
| POE0804 -1R0M | 1.0                                   | 20                      | 100              | 0.009                             | 9.0                      | 6.8                      |
| POE0804 -1R5M | 1.5                                   | 20                      | 90               | 0.010                             | 8.0                      | 6.4                      |
| POE0804 -2R2M | 2.2                                   | 20                      | 80               | 0.012                             | 7.0                      | 6.1                      |
| POE0804 -3R3M | 3.3                                   | 20                      | 65               | 0.015                             | 6.4                      | 5.4                      |
| POE0804 -4R7M | 4.7                                   | 20                      | 45               | 0.018                             | 5.4                      | 4.8                      |
| POE0804 -6R8M | 6.8                                   | 20                      | 38               | 0.027                             | 4.6                      | 4.4                      |
| POE0804 -100M | 10                                    | 20                      | 30               | 0.038                             | 3.8                      | 3.9                      |
| POE0804 -150M | 15                                    | 20                      | 27               | 0.046                             | 3.0                      | 3.1                      |
| POE0804 -220M | 22                                    | 20                      | 19               | 0.085                             | 2.6                      | 2.7                      |
| POE0804 -330M | 33                                    | 20                      | 15               | 0.100                             | 2.0                      | 2.1                      |
| POE0804 -470M | 47                                    | 20                      | 12               | 0.140                             | 1.6                      | 1.8                      |
| POE0804 -680M | 68                                    | 20                      | 10               | 0.200                             | 1.4                      | 1.5                      |
| POE0804 -101M | 100                                   | 20                      | 9                | 0.260                             | 1.2                      | 1.3                      |
| POE0804 -151M | 150                                   | 20                      | 6                | 0.400                             | 1.0                      | 1.0                      |
| POE0804 -221M | 220                                   | 20                      | 5                | 0.610                             | 0.8                      | 0.8                      |
| POE0804 -331M | 330                                   | 20                      | 4.5              | 1.020                             | 0.6                      | 0.6                      |
| POE0804 -471M | 470                                   | 20                      | 3.5              | 1.270                             | 0.5                      | 0.5                      |
| POE0804 -681M | 680                                   | 20                      | 2.5              | 2.020                             | 0.4                      | 0.4                      |
| POE0804 -102M | 1000                                  | 20                      | 2.0              | 3.000                             | 0.3                      | 0.3                      |

1. Inductance tested at 100 KHz, 0.1 Vrms.

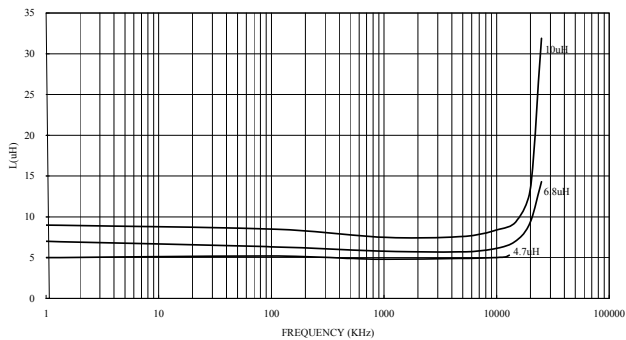
2. Inductance drop = 20% typ. at Isat.

3.  $\Delta T = 15^\circ\text{C}$  rise typ at Irms.

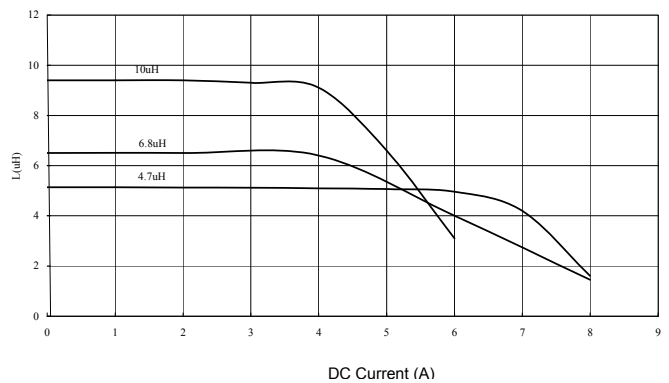
- Tolerance: M =  $\pm 20\%$
- Operating temperature range  $-40^\circ\text{C} \sim 125^\circ\text{C}$  (Including self - temperature rise )

## Test Instruments :

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Inductance vs. DC Current





## Electrical Characteristics

| Part Number   | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | DC Resistance<br>( $\Omega$ ) Max | SRF<br>(MHz) Typ | Isat <sup>②</sup><br>(A) | Irms <sup>③</sup><br>(A) |
|---------------|---------------------------------------|-------------------------|-----------------------------------|------------------|--------------------------|--------------------------|
| POE0810T-100M | 10                                    | 20                      | 0.033                             | 22               | 8.0                      | 3.5                      |
| POE0810T-150M | 15                                    | 20                      | 0.042                             | 18               | 7.0                      | 3.0                      |
| POE0810T-220M | 22                                    | 20                      | 0.054                             | 11               | 5.5                      | 2.5                      |
| POE0810T-330M | 33                                    | 20                      | 0.08                              | 9                | 4.0                      | 2.0                      |
| POE0810T-470M | 47                                    | 20                      | 0.10                              | 8                | 3.8                      | 1.6                      |
| POE0810T-680M | 68                                    | 20                      | 0.17                              | 7                | 3.0                      | 1.2                      |
| POE0810T-101M | 100                                   | 20                      | 0.22                              | 5                | 2.5                      | 1.2                      |
| POE0810T-151M | 150                                   | 20                      | 0.34                              | 4                | 2.0                      | 0.9                      |
| POE0810T-221M | 220                                   | 20                      | 0.44                              | 3.5              | 1.6                      | 0.7                      |
| POE0810T-331M | 330                                   | 20                      | 0.70                              | 2.5              | 1.2                      | 0.6                      |
| POE0810T-471M | 470                                   | 20                      | 0.95                              | 2                | 1.0                      | 0.3                      |
| POE0810T-681M | 680                                   | 20                      | 1.2                               | 2                | 1.0                      | 0.2                      |
| POE0810T-102M | 1000                                  | 20                      | 2.0                               | 1.5              | 0.8                      | 0.1                      |

1. Inductance tested at 100 KHz, 0.1 Vrms.

2. Inductance drop = 20% typ. at Isat.

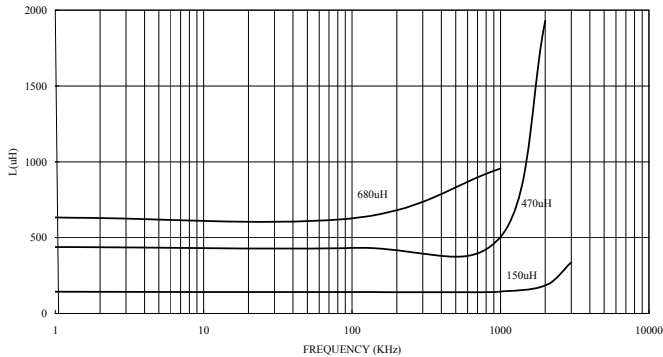
3.  $\Delta T = 40^\circ\text{C}$  rise typ at Irms.

● Tolerance: M =  $\pm 20\%$

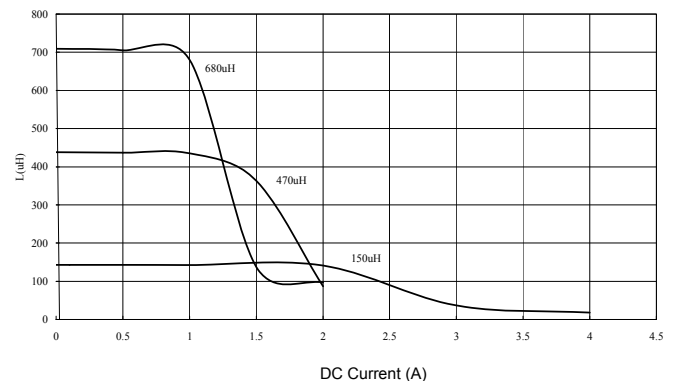
● Operating temperature range  $-40^\circ\text{C} \sim 125^\circ\text{C}$  (Including self - temperature rise )

## Test Instruments :

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Inductance vs. DC Current



## Electrical Characteristics

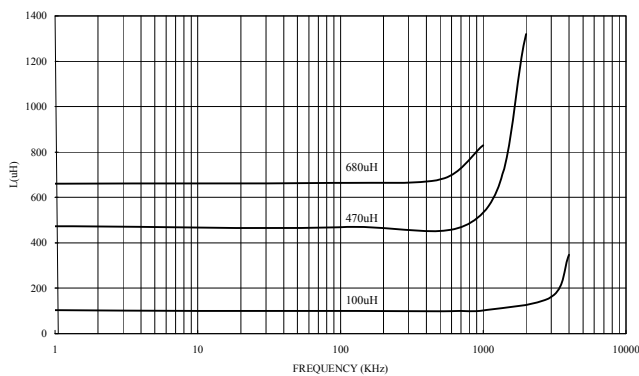
| Part Number   | Inductance <sup>①</sup><br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | SRF<br>(MHz) Typ | DC Resistance<br>( $\Omega$ +15%) | Isat <sup>②</sup><br>(A) | Irms <sup>③</sup><br>(A) |
|---------------|---------------------------------------|-------------------------|------------------|-----------------------------------|--------------------------|--------------------------|
| POE1306 -1R0M | 1.0                                   | 20                      | 80               | 0.011                             | 20                       | 8.6                      |
| POE1306 -2R2M | 2.2                                   | 20                      | 80               | 0.014                             | 16                       | 7.1                      |
| POE1306 -3R3M | 3.3                                   | 20                      | 60               | 0.016                             | 14                       | 6.2                      |
| POE1306 -5R6M | 5.6                                   | 20                      | 40               | 0.022                             | 12                       | 5.3                      |
| POE1306 -100M | 10                                    | 20                      | 30               | 0.032                             | 10                       | 4.3                      |
| POE1306 -150M | 15                                    | 20                      | 22               | 0.036                             | 8.0                      | 4.0                      |
| POE1306 -220M | 22                                    | 20                      | 20               | 0.047                             | 7.0                      | 3.5                      |
| POE1306 -330M | 33                                    | 20                      | 15               | 0.066                             | 5.5                      | 3.0                      |
| POE1306 -470M | 47                                    | 20                      | 9                | 0.087                             | 4.5                      | 2.6                      |
| POE1306 -680M | 68                                    | 20                      | 8                | 0.13                              | 3.5                      | 2.3                      |
| POE1306 -101M | 100                                   | 20                      | 7                | 0.19                              | 3.0                      | 1.8                      |
| POE1306 -151M | 150                                   | 20                      | 6                | 0.25                              | 2.6                      | 1.5                      |
| POE1306 -221M | 220                                   | 20                      | 5                | 0.38                              | 2.4                      | 1.2                      |
| POE1306 -331M | 330                                   | 20                      | 4                | 0.56                              | 1.9                      | 1.0                      |
| POE1306 -471M | 470                                   | 20                      | 3                | 0.85                              | 1.4                      | 0.82                     |
| POE1306 -681M | 680                                   | 20                      | 2.5              | 1.2                               | 1.2                      | 0.72                     |
| POE1306 -102M | 1000                                  | 20                      | 2                | 1.8                               | 1.0                      | 0.56                     |

1. Inductance tested at 100 KHz, 0.1 Vrms.
2. Inductance drop = 20% typ. at Isat.
3.  $\Delta T = 40^{\circ}\text{C}$  rise typ at Irms.

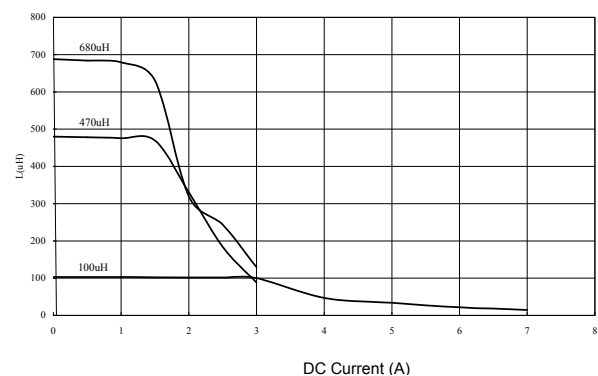
- Tolerance: M =  $\pm 20\%$
- Operating temperature range  $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise )

## Test Instruments :

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

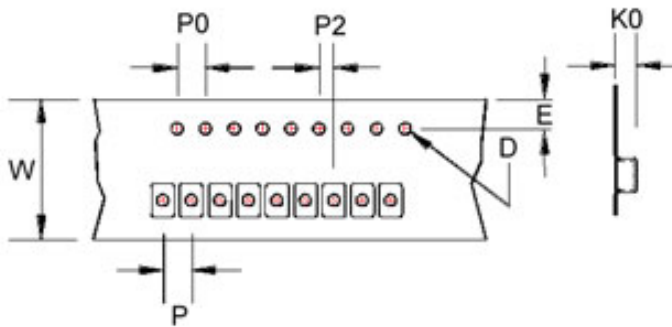


Inductance vs. DC Current

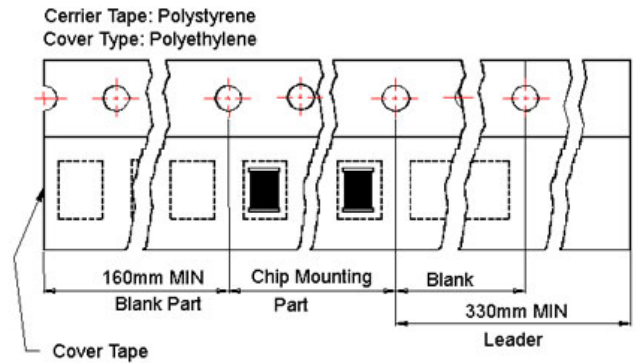


## Packaging Specifications

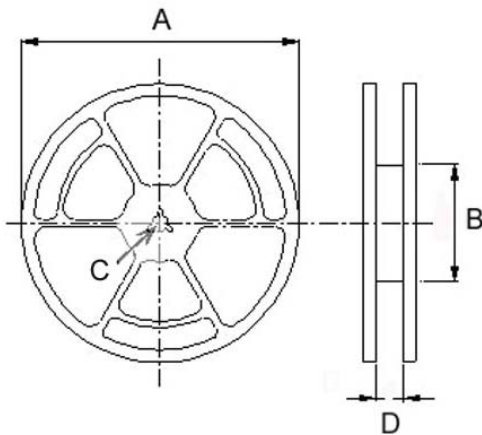
Tape Dimensions



Tape Material



Reel Dimensions



### Dimensions in mm

| TYPE     | Tape Dimensions |      |      |    |    |    |    | Reel Dimensions |     |    |      | Quantity (PCS / REEL) |       |
|----------|-----------------|------|------|----|----|----|----|-----------------|-----|----|------|-----------------------|-------|
|          | K0              | D    | E    | W  | P  | P0 | P2 | A               | B   | C  | D    | 178mm                 | 330mm |
| POE 04LP | 1.30            | 1.5  | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | -                     | 3500  |
|          |                 |      |      |    |    |    |    | 178             | 60  |    | 13.2 | 1000                  | -     |
| POE 0400 | 1.85            | 1.5  | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | -                     | 3500  |
|          |                 |      |      |    |    |    |    | 178             | 60  |    | 13.2 | 1000                  | -     |
| POE0402  | 3.2             | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | -                     | 2500  |
|          |                 |      |      |    |    |    |    | 178             | 60  |    | 13.2 | 750                   | -     |
| POE 0614 | 1.8             | 1.5  | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | -                     | 2500  |
| POE 0802 | 3.75            | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | -                     | 1000  |
| POE 0804 | 5.4             | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | -                     | 750   |
| POE 0810 | 11.5            | 1.55 | 1.75 | 24 | 20 | 4  | 2  | 330             | 100 | 13 | 24.4 | -                     | 225   |
| POE 1306 | 7.5             | 1.55 | 1.75 | 32 | 20 | 4  | 2  | 330             | 100 | 13 | 33.4 | -                     | 250   |