

## SEP0415SH SERIES~ High Current Power Inductors



### PART NUMBERING SYSTEM

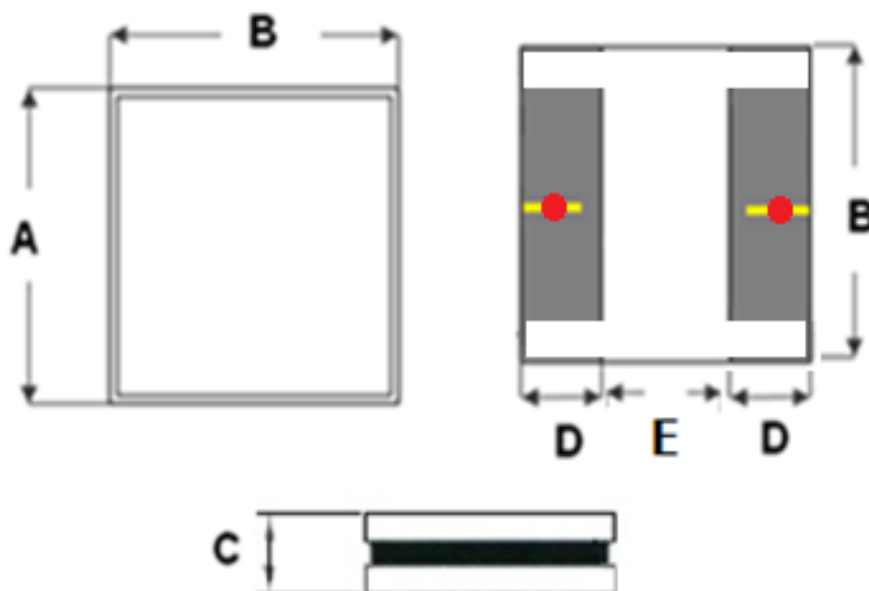
|            |               |   |             |   |           |
|------------|---------------|---|-------------|---|-----------|
| <u>SEP</u> | <u>0415SH</u> | — | <u>2R2M</u> | — | <u>LF</u> |
| TYPE       | DIMENSIONS    |   | INDUCTANCE  |   | LEAD FREE |

### FEATURES :

- Low profile ( 1.5mm height ) and 4.2 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current .
- Ideal for DC – DC converter inductor application in hand help personal Computer ,etc .
- Frequency range up to 5MHZ .
- Large current handling capability .

### SHAPES AND DIMENSIONS :

UNIT : mm



A=4.0±0.2 B=4.0±0.2 C=1.5±0.2 D=1.2 Typ. E=1.6 typ.

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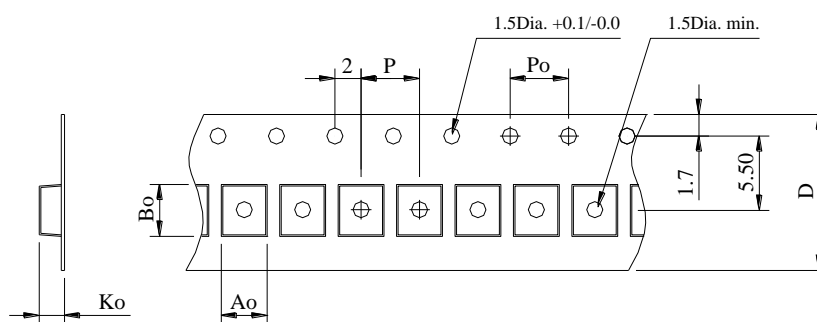


### SPECIFICATION TABLE

| PART NUMBER       | INDUCTANCE<br>( $\mu$ H) | Isat ( A )<br>(Typ.) | Irms ( A )<br>(Typ.) | DCR (m $\Omega$ )<br>(Max.) | TEST FREQ.<br>( f ) |
|-------------------|--------------------------|----------------------|----------------------|-----------------------------|---------------------|
| SEP0415SH-R47M-LF | 0.47 $\pm$ 20%           | 10.0                 | 7.00                 | 15.0                        | 1MHz/1V             |
| SEP0415SH-1R0M-LF | 1.0 $\pm$ 20%            | 7.50                 | 5.00                 | 35.0                        | 1MHz/1V             |
| SEP0415SH-1R5M-LF | 1.5 $\pm$ 20%            | 6.00                 | 3.50                 | 50.0                        | 1MHz/1V             |
| SEP0415SH-2R2M-LF | 2.2 $\pm$ 20%            | 5.00                 | 3.00                 | 65.0                        | 1MHz/1V             |
| SEP0415SH-3R3M-LF | 3.3 $\pm$ 20%            | 4.00                 | 2.50                 | 90.0                        | 1MHz/1V             |
| SEP0415SH-4R7M-LF | 4.7 $\pm$ 20%            | 3.60                 | 2.00                 | 110.0                       | 1MHz/1V             |
| SEP0415SH-100M-LF | 10.0 $\pm$ 20%           | 2.40                 | 1.10                 | 165.0                       | 1MHz/1V             |

- Isat : DC current at which the inductance drops 30% (Max.) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.

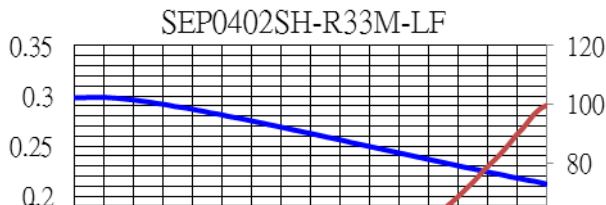
### PACKAGING SPECIFICATION



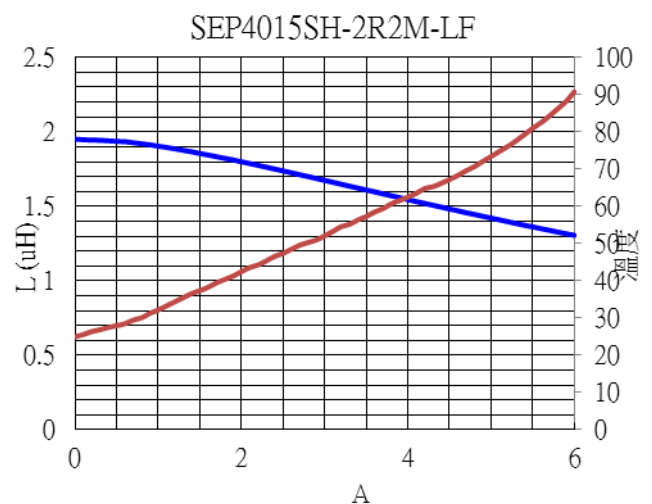
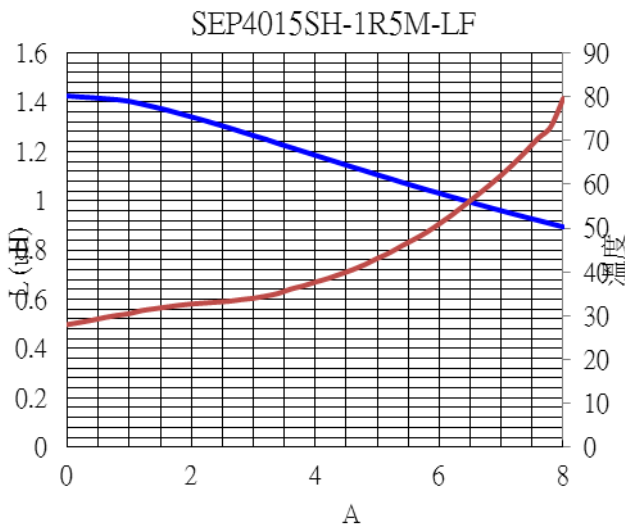
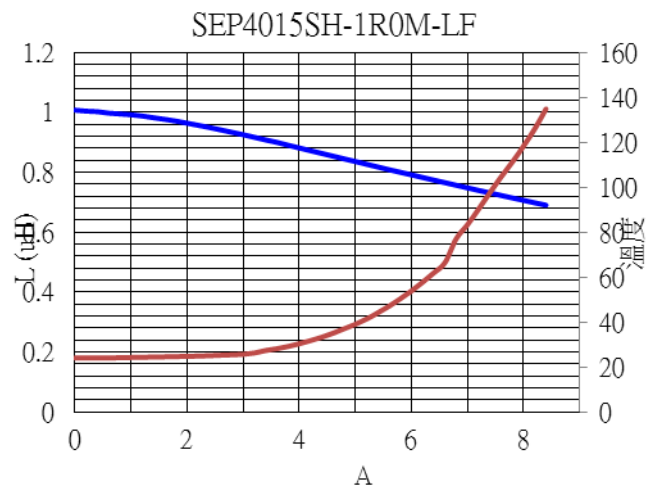
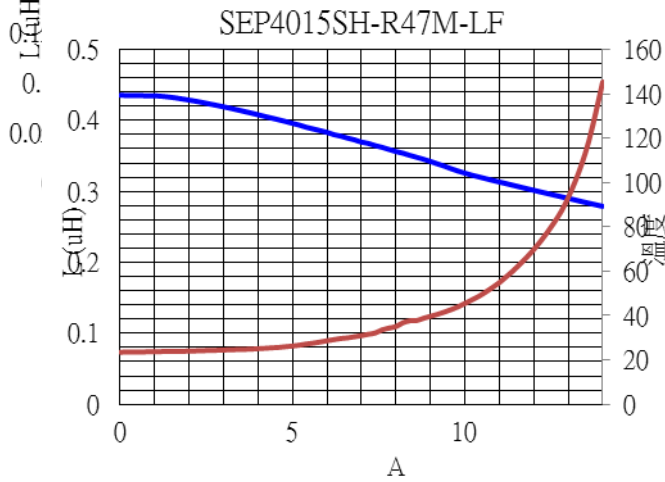
| STAYLE | Q' TY<br>(PCS) | DIMENSIONS (m/m) |                |                |    |     |             |
|--------|----------------|------------------|----------------|----------------|----|-----|-------------|
|        |                | Ao               | Bo             | Ko             | P  | Po  | D $\pm$ 0.3 |
| 13"    | 2,000          | 4.25 $\pm$ 0.1   | 4.25 $\pm$ 0.1 | 1.75 $\pm$ 0.1 | 12 | 4.0 | 12          |



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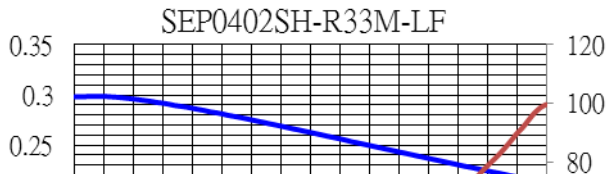


Temperature rise vs Current ( Irms )





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Temperature rise vs Current ( Irms )

