

Specification for Approval

| Customer | |
|---------------|---------------------------------------|
| Product Name | Wire Wound Molded SMD Power Inductors |
| Customer P/N: | |
| Cjiang P/N: | FXL series |
| REMARK: | Revised] SPEC No.: |
| | |

•深圳市长江微电科技有限公司

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| | Version change history | | | | | | | |
|-----|------------------------|------------------------|----------|---------|---------|--|--|--|
| Rev | Date | Description | APPROVED | CHECKED | DRAWN | | | |
| 1.0 | 2023/11/17 | Document formulation | 徐舒霞 | 马月 | 朱小娟 | | | |
| 2.0 | 2024/1/25 | Increase Isat/Irms Max | BOND | MIKO | МІКО | | | |
| 3.0 | 2024/3/25 | Merge all sizes | BOND | XUETING | XUETING | | | |

Caution:

All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

- 1. Aircraft equipment.
- 2. Aerospace equipment.
- 3. Undersea equipment.
- 4. nuclear control equipment.
- 5. military equipment.
- 6. Power plant equipment.
- 7. Medical equipment.
- 8. Transportation equipment (automobiles, trains, ships,etc.)
- 9. Traffic signal equipment.
- 10. Disaster prevention / crime prevention equipment.
- 11. Data-processing equipment.
- 12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.

深圳市长江微电科技有限公司

SZ CJIANG TECHNOLOGY CO.,LTD



introduction

- Halogen Free ,ROHS compliance
- High rated current
- 125 [°]C maximum total temperature operation
- 4.75 x 4.45 x 1.2mm maximum surface mount package
- Low core loss
- Ultra low buzz noise due to molding construction

Applications

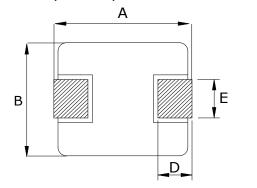
- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

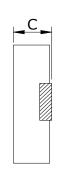
Product Identification

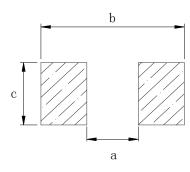
<u>FXL</u> <u>0412</u> <u>--1R5</u> - <u>M</u> <u>(4)</u>

- ① FXL ----- Series name
- ② 0412 ----- Dimension
- ③ 1R5 ----- Inductance Value (1R5 = 1.5µH)
- 4 M ----- Inductance Tolerance (M= \pm 20%)

Dimensions (unit:mm)







Recommend Land Pattern

| series | А | В | С | D | Е | a typ | b typ | c typ |
|---------|------------|----------|----------|---------|-------------|-------|-------|-------|
| FXL0412 | 4.4±0.35 | 4.2±0.25 | 1.0±0.2 | 0.8±0.3 | 2.0±0.3 | 2.2 | 5.2 | 2.5 |
| FXL0420 | 4.4±0.35 | 4.2±0.25 | 1.8±0.2 | 0.8±0.3 | 2.0±0.3 | 2.2 | 5.2 | 2.5 |
| FXL0518 | 5.4±0.35 | 5.2±0.2 | 1.6±0.2 | 1.2±0.2 | 2.2±0.3 | 2.2 | 6 | 2.5 |
| FXL0530 | 5.4±0.35 | 5.2±0.2 | 2.8±0.2 | 1.2±0.2 | 2.2±0.3 | 2.2 | 6 | 2.5 |
| FXL0615 | 7.0±0.3 | 6.6±0.2 | 1.3±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| FXL0618 | 7.0±0.3 | 6.6±0.2 | 1.6±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| FXL0624 | 7.0±0.3 | 6.6±0.2 | 2.2±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| FXL0630 | 7.0±0.3 | 6.6±0.2 | 2.8±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| FXL0640 | 7.0±0.3 | 6.6±0.2 | 3.8±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| FXL0650 | 7.0±0.3 | 6.6±0.2 | 4.8±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| FXL0840 | 8.8±0.4 | 8.2±0.3 | 3.8±0.2 | 1.4±0.3 | 5.0±0.3 | 4 | 9.5 | 5.5 |
| FXL1030 | 11.5MAX | 10.0±0.3 | 2.8±0.2 | 2.0±0.5 | 3.0±0.5 | 5.4 | 13.6 | 4.1 |
| FXL1040 | 11.5MAX | 10.0±0.3 | 3.8±0.2 | 2.0±0.5 | 3.0±0.5 | 5.4 | 13.6 | 4.1 |
| FXL1050 | 11.5MAX | 10.0±0.3 | 4.8±0.2 | 2.0±0.5 | 3.0±0.5 | 5.4 | 13.6 | 4.1 |
| FXL1340 | 13.45±0.35 | 12.8±0.5 | 4.0MAX | 2.0±0.5 | See remarks | 8 | 14.5 | 5.5 |
| FXL1350 | 13.45±0.35 | 12.6±0.3 | 4.8±0.2 | 2.0±0.5 | See remarks | 8 | 14.5 | 5.5 |
| FXL1360 | 13.45±0.35 | 12.6±0.3 | 5.8±0.2 | 2.0±0.5 | See remarks | 8 | 14.5 | 5.5 |
| FXL1365 | 13.45±0.35 | 12.6±0.3 | 6.5MAX | 2.0±0.5 | 5.0±0.3 | 8 | 14.5 | 5.5 |
| FXL1770 | 17.15±0.35 | 17.15MAX | 7.0MAX | 2.5±0.5 | 12.0±0.3 | 11.2 | 18.2 | 12.8 |
| FXL2213 | 23.5±0.5 | 22.0±0.3 | 12.6±0.4 | 5.0±0.4 | 19.0±0.3 | 12.5 | 24 | 19.6 |

Remarks:

| series | E | Dimensions |
|----------|----------|---|
| 3.85±0.5 | | R22/R47 |
| FXL1340 | 5.0±0.3 | R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220 |
| EVI 1250 | 3.85±0.5 | R22/R36/R50/R68/R82/1R0/1R5/2R2 |
| FXL1350 | 5.0±0.3 | 3R3/4R7/6R8/8R2/100/150/220/330/470 |
| EVI 4260 | 3.85±0.5 | 1R0/2R2 |
| FXL1360 | 5.0±0.3 | 4R7/5R6/6R8/8R2/100/150/180/220/270/330/470/680/101/121/151 |

Marking

The inductor is marked with a 3-digit code

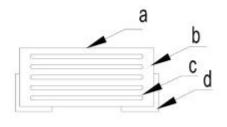
| Nominal Inductance | | | | | |
|--------------------|---------------|--|--|--|--|
| Example | Nominal Value | | | | |
| 1R0 | 1.0 µH | | | | |
| 100 | 10 µH | | | | |
| 101 | 100 µH | | | | |

Note: Using Ink for marking

1R0

Structure and Components

| Symbol | Components | Material |
|--------|------------|--------------------------|
| а | MARKING | Ink (black) |
| b | CORE | Alloy Sponge Powder |
| С | WIRE | Polyurethane copper wire |
| d | Terminal | Copper plated with Sn |



Appendix A: Electrical Characteristics

FXL0412-XXX series

| Part No. | Inductance art No. | | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|----------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0412-R15-M | 0.15 | 9 | 12 | 15 | 6.8 | 7.5 |
| FXL0412-R22-M | 0.22 | 11 | 8.8 | 11 | 6.5 | 7 |
| FXL0412-R33-M | 0.33 | 19 | 6.7 | 8.4 | 5.7 | 6.5 |
| FXL0412-R47-M | 0.47 | 21 | 5.4 | 6.8 | 5.2 | 6 |
| FXL0412-R68-M | 0.68 | 36 | 4.8 | 6 | 4.2 | 4.7 |
| FXL0412-1R0-M | 1.0 | 47 | 4.4 | 5.5 | 3.8 | 4.5 |
| FXL0412-1R5-M | 1.5 | 75 | 3.2 | 4 | 2.7 | 3.25 |
| FXL0412-2R2-M | 2.2 | 83.5 | 2.4 | 3.5 | 2.2 | 2.75 |
| FXL0412-3R3-M | 3.3 | 165 | 2.38 | 3 | 1.77 | 2 |
| FXL0412-4R7-M | 4.7 | 195 | 1.80 | 2.8 | 1.45 | 1.8 |

FXL0420-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|------------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0420-R10-M | 0.1 | 4 | 17.6 | 22 | 11.2 | 13 |
| FXL0420-R22-M | 0.22 | 6.6 | 10 | 12.5 | 8.2 | 9.5 |
| FXL0420-R33-M | 0.33 | 11 | 9.6 | 12 | 8.6 | 10 |
| FXL0420-R47-M | 0.47 | 14 | 7.6 | 9.5 | 6.65 | 7.5 |
| FXL0420-R56-M | 0.56 | 16 | 7.2 | 10 | 6.1 | 7 |
| FXL0420-R68-M | 0.68 | 18 | 6.4 | 9 | 6.15 | 7 |
| FXL0420-1R0-M | 1.0 | 27 | 5.6 | 7 | 5.4 | 6 |
| FXL0420-1R2-M | 1.2 | 27 | 5.2 | 7 | 5.4 | 6 |
| FXL0420-1R5-M | 1.5 | 46 | 4.4 | 6 | 4.3 | 5 |
| FXL0420-2R2-M | 2.2 | 58 | 4.0 | 5 | 3.8 | 4.5 |
| FXL0420-3R3-M | 3.3 | 87 | 2.8 | 4 | 2.8 | 3.3 |
| FXL0420-4R7-M | 4.7 | 105 | 2.4 | 3 | 2.2 | 2.8 |
| FXL0420-6R8-M | 6.8 | 175 | 2.0 | 2.5 | 1.9 | 2.4 |
| FXL0420-100-M | 10 | 282 | 1.6 | 2.2 | 1.3 | 1.6 |
| FXL0420-220-M | 22 | 363 | 1.12 | 1.4 | 0.9 | 1.2 |

FXL0518-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|------------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0518-R47-M | 0.47 | 9 | 9.6 | 15.5 | 9.5 | 10.5 |
| FXL0518-R56-M | 0.56 | 10 | 8.8 | 15 | 8.2 | 9.5 |
| FXL0518-R68-M | 0.68 | 13.8 | 9.3 | 11.2 | 7.7 | 8.9 |
| FXL0518-1R0-M | 1.0 | 17 | 7.2 | 9 | 7.2 | 8 |
| FXL0518-1R5-M | 1.5 | 26 | 6.4 | 9 | 6.6 | 7.5 |
| FXL0518-2R2-M | 2.2 | 35 | 4.8 | 6.5 | 4.2 | 5 |
| FXL0518-3R3-M | 3.3 | 58 | 3.84 | 5 | 3.8 | 4.5 |
| FXL0518-4R7-M | 4.7 | 85 | 3.2 | 4 | 3.0 | 3.5 |
| FXL0518-6R8-M | 6.8 | 120 | 2.72 | 3.4 | 2.4 | 2.8 |
| FXL0518-100-M | 10 | 155 | 2 | 3 | 2.2 | 2.5 |

FXL0530-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|------------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0530-R10-M | 0.10 | 3 | 24 | 33 | 23 | 25 |
| FXL0530-R20-M | 0.20 | 3.9 | 11.6 | 14.5 | 13 | 14 |
| FXL0530-R33-M | 0.33 | 5.5 | 14.4 | 18 | 13.1 | 14 |
| FXL0530-R47-M | 0.47 | 8.5 | 9.6 | 12 | 10 | 11 |
| FXL0530-R68-M | 0.68 | 12 | 9.2 | 11.5 | 8.2 | 9.0 |
| FXL0530-1R0-M | 1.0 | 14 | 8 | 11 | 7.8 | 8.5 |
| FXL0530-1R2-M | 1.2 | 16 | 7.6 | 11 | 7.85 | 8.5 |
| FXL0530-1R5-M | 1.5 | 25 | 7.2 | 8.5 | 7.6 | 8.2 |
| FXL0530-2R2-M | 2.2 | 29 | 5.6 | 7.5 | 6.4 | 7.0 |
| FXL0530-3R3-M | 3.3 | 38 | 4.8 | 6.0 | 5 | 5.5 |
| FXL0530-4R7-M | 4.7 | 60 | 3.68 | 5 | 4 | 4.5 |
| FXL0530-6R8-M | 6.8 | 90 | 2.88 | 4 | 2.9 | 3.5 |
| FXL0530-100-M | 10 | 125 | 2.8 | 3.5 | 2.8 | 3.2 |
| FXL0530-150-M | 15 | 180 | 2.0 | 2.2 | 1.6 | 1.7 |
| FXL0530-220-M | 22 | 248 | 2.0 | 2.3 | 1.5 | 1.7 |

FXL0615-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0615-R47-M | 0.47 | 8.5 | 14.16 | 16 | 8.85 | 10 |
| FXL0615-R56-M | 0.56 | 11 | 12.38 | 14 | 7.96 | 9 |
| FXL0615-R68-M | 0.68 | 12 | 10.62 | 12 | 7.52 | 8.5 |
| FXL0615-R82-M | 0.82 | 17 | 8.85 | 10 | 7.08 | 8 |
| FXL0615-1R0-M | 1.0 | 21 | 7.96 | 9 | 5.3 | 6 |
| FXL0615-1R5-M | 1.5 | 45 | 6.2 | 7 | 3.4 | 4 |
| FXL0615-2R2-M | 2.2 | 54 | 6.19 | 7 | 3.36 | 3.8 |
| FXL0615-3R3-M | 3.3 | 63 | 4.87 | 5.5 | 3.1 | 3.5 |
| FXL0615-4R7-M | 4.7 | 85 | 4.42 | 5 | 2.83 | 3.2 |
| FXL0615-6R8-M | 6.8 | 135 | 3.54 | 4 | 2.21 | 2.5 |
| FXL0615-100-M | 10 | 175 | 2.65 | 3 | 1.77 | 2 |

FXL0618-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0618-R10-M | 0.1 | 2.3 | 30.4 | 38 | 23 | 25 |
| FXL0618-R22-M | 0.22 | 3.5 | 19.2 | 24 | 20 | 22 |
| FXL0618-R47-M | 0.47 | 8.4 | 16.0 | 18 | 10 | 11.5 |
| FXL0618-R68-M | 0.68 | 12 | 13.2 | 17 | 8.4 | 9.5 |
| FXL0618-1R0-M | 1.0 | 16 | 9.6 | 14 | 7.6 | 8.5 |
| FXL0618-1R5-M | 1.5 | 26 | 7.36 | 12 | 7.1 | 8.0 |
| FXL0618-2R2-M | 2.2 | 35 | 6.4 | 8 | 6.2 | 7 |
| FXL0618-3R3-M | 3.3 | 50 | 4.8 | 6.5 | 3.8 | 4.5 |
| FXL0618-4R7-M | 4.7 | 62 | 4.0 | 5 | 3.5 | 4 |
| FXL0618-6R8-M | 6.8 | 110 | 3.6 | 4.5 | 2.4 | 3.0 |
| FXL0618-100-M | 10 | 155 | 3.2 | 4 | 1.95 | 2.3 |
| FXL0618-220-M | 22 | 350 | 1.84 | 2.3 | 1.4 | 1.8 |

FXL0624-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0624-R22-M | 0.22 | 3 | 24 | 34 | 19 | 21 |
| FXL0624-R33-M | 0.33 | 4.1 | 19.6 | 24.5 | 16 | 18 |
| FXL0624-R47-M | 0.47 | 5.1 | 16 | 22 | 13.5 | 15 |
| FXL0624-R56-M | 0.56 | 6.5 | 13.6 | 17 | 11.5 | 13 |
| FXL0624-R68-M | 0.68 | 7 | 12.8 | 16 | 10.5 | 12 |
| FXL0624-1R0-M | 1.0 | 13.5 | 12.0 | 16 | 8 | 9 |
| FXL0624-1R5-M | 1.5 | 20 | 10.8 | 15 | 7 | 9 |
| FXL0624-2R2-M | 2.2 | 28 | 8 | 10 | 6.2 | 7 |
| FXL0624-3R3-M | 3.3 | 39 | 6.4 | 8 | 4.8 | 5.5 |
| FXL0624-4R7-M | 4.7 | 50 | 5.2 | 7.5 | 4.3 | 5 |
| FXL0624-6R8-M | 6.8 | 70 | 4.8 | 6 | 3.2 | 4 |
| FXL0624-100-M | 10 | 101 | 3.2 | 4 | 2.4 | 3.1 |
| FXL0624-150-M | 15 | 160 | 2.64 | 3.3 | 2.0 | 2.5 |
| FXL0624-220-M | 22 | 230 | 2.0 | 2.5 | 1.6 | 2 |

FXL0630-XXX series

| | Inductance | DC Resistance | Saturation Current | | Heating Rating Current | | |
|---------------|--------------------|---------------|--------------------|----------|---------------------------|----------|--|
| Part No. | L0 (µH) | DCR (mΩ) | | Isat (A) | | Irms (A) | |
| | ±20 %, 100 kHz, 1V | MAX. | Max | Тур | Max | Тур | |
| FXL0630-R10-M | 0.1 | 0.99 | 48 | 60 | 35 | 40 | |
| FXL0630-R15-M | 0.15 | 2.4 | 35 | 41 | 25 | 30 | |
| FXL0630-R22-M | 0.22 | 3 | 32 | 34 | 21 | 24 | |
| FXL0630-R24-M | 0.24 | 3.1 | 22.4 | 28 | 18.4 | 23 | |
| FXL0630-R33-M | 0.33 | 3.5 | 22 | 25 | 20 | 21 | |
| FXL0630-R47-M | 0.47 | 4.1 | 18 | 20 | 16 | 18 | |
| FXL0630-R56-M | 0.56 | 4.5 | 16 | 18 | 15 | 16.5 | |
| FXL0630-R68-M | 0.68 | 5.3 | 15 | 17 | 14.5 | 16 | |
| FXL0630-R82-M | 0.82 | 6.0 | 14 | 16 | 13 | 14 | |
| FXL0630-1R0-M | 1.0 | 7.4 | 13.5 | 15 | 11.2 | 12 | |

| FXL0630-1R5-M | 1.5 | 12.1 | 12 | 14 | 9.5 | 12 |
|---------------|-----|------|------|-----|-----|-----|
| FXL0630-2R2-M | 2.2 | 15 | 10.5 | 12 | 8.5 | 9.5 |
| FXL0630-2R7-M | 2.7 | 20 | 9 | 10 | 8.2 | 8.8 |
| FXL0630-3R3-M | 3.3 | 22 | 8.7 | 9.5 | 8 | 8.5 |
| FXL0630-4R7-M | 4.7 | 33 | 7.5 | 9 | 5.5 | 6 |
| FXL0630-5R6-M | 5.6 | 42 | 5.5 | 6.5 | 5 | 5.5 |
| FXL0630-6R8-M | 6.8 | 48 | 5.2 | 6 | 4.5 | 5 |
| FXL0630-8R2-M | 8.2 | 60 | 5 | 5.5 | 4 | 5 |
| FXL0630-100-M | 10 | 68 | 4.9 | 5.5 | 3.8 | 4.5 |
| FXL0630-150-M | 15 | 115 | 3.5 | 4.0 | 2.6 | 3 |
| FXL0630-220-M | 22 | 200 | 2.5 | 3 | 2.2 | 2.5 |
| FXL0630-330-M | 33 | 310 | 2.1 | 2.5 | 1.8 | 2 |
| FXL0630-470-M | 47 | 385 | 1.8 | 2 | 1.3 | 1.5 |

FXL0640-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0640-R15-M | 0.15 | 0.66±7% | 45 | 50 | 36 | 40 |
| FXL0640-R22-M | 0.22 | 0.98±7% | 28 | 35 | 32 | 35 |
| FXL0640-R68-M | 0.68 | 4.8 | 17 | 19 | 16 | 17 |
| FXL0640-1R0-M | 1.0 | 6.6 | 15 | 16 | 12.5 | 13.5 |
| FXL0640-1R5-M | 1.5 | 10 | 12 | 12.5 | 11 | 12.4 |
| FXL0640-2R2-M | 2.2 | 14 | 10 | 11 | 8.5 | 10 |
| FXL0640-3R3-M | 3.3 | 20 | 8.7 | 9.5 | 7.8 | 8.5 |
| FXL0640-4R7-M | 4.7 | 30 | 8 | 9 | 6 | 6.5 |
| FXL0640-6R8-M | 6.8 | 45 | 6 | 6.5 | 5 | 5.5 |
| FXL0640-8R2-M | 8.2 | 55 | 5.0 | 6 | 4.2 | 5.2 |
| FXL0640-100-M | 10 | 65 | 5 | 6 | 4 | 4.8 |
| FXL0640-150-M | 15 | 95 | 4 | 4.5 | 3.2 | 3.7 |
| FXL0640-220-M | 22 | 125 | 3.5 | 4 | 3 | 3.3 |
| FXL0640-330-M | 33 | 240 | 2.5 | 3 | 2 | 2.2 |
| FXL0640-470-M | 47 | 320 | 2 | 2.5 | 1.6 | 1.8 |

FXL0650-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0650-R47-M | 0.47 | 3.9 | 16.8 | 21 | 17.0 | 20 |
| FXL0650-R68-M | 0.68 | 4.5 | 14.4 | 18 | 14.5 | 16.5 |
| FXL0650-1R0-M | 1.0 | 6.6 | 12.8 | 16 | 10 | 12 |
| FXL0650-1R5-M | 1.5 | 10 | 10.4 | 13 | 8.2 | 9.5 |
| FXL0650-2R2-M | 2.2 | 12.5 | 8.8 | 11 | 8.0 | 9 |
| FXL0650-3R3-M | 3.3 | 22 | 8.0 | 10 | 7.6 | 8.5 |
| FXL0650-4R7-M | 4.7 | 29 | 6.4 | 8 | 5 | 6 |
| FXL0650-6R8-M | 6.8 | 41 | 5.04 | 6.3 | 4 | 5.8 |
| FXL0650-8R2-M | 8.2 | 48 | 4.4 | 5.5 | 4.8 | 5.5 |
| FXL0650-100-M | 10 | 60 | 4.24 | 5.3 | 3.8 | 4.5 |
| FXL0650-150-M | 15 | 90 | 3.2 | 4 | 2.6 | 3.1 |
| FXL0650-220-M | 22 | 140 | 2.8 | 3.5 | 2 | 2.6 |
| FXL0650-330-M | 33 | 190 | 2.4 | 3.0 | 1.8 | 2.3 |
| FXL0650-470-M | 47 | 230 | 2.08 | 2.6 | 1.5 | 2 |

FXL0840-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL0840-R22-M | 0.22 | 1.8 | 55 | 60 | 30 | 36 |
| FXL0840-R33-M | 0.33 | 2.4 | 40 | 45 | 25 | 30 |
| FXL0840-R47-M | 0.47 | 2.8 | 36 | 42 | 25 | 28 |
| FXL0840-R56-M | 0.56 | 3.2 | 23 | 26 | 22 | 24 |
| FXL0840-R68-M | 0.68 | 3.8 | 22 | 24 | 21 | 23 |
| FXL0840-R82-M | 0.82 | 4.4 | 19 | 21 | 19 | 21 |
| FXL0840-1R0-M | 1.0 | 4.62 | 17 | 19 | 17 | 19 |
| FXL0840-1R5-M | 1.5 | 7.6 | 15 | 17 | 15 | 17 |
| FXL0840-1R8-M | 1.8 | 11 | 13.5 | 15 | 12.5 | 15 |
| FXL0840-2R2-M | 2.2 | 11.4 | 12 | 14 | 12 | 14 |
| FXL0840-3R3-M | 3.3 | 15 | 11 | 12.5 | 10 | 12 |
| FXL0840-4R7-M | 4.7 | 26.5 | 10.5 | 11.5 | 8.5 | 9.5 |

| FXL0840-5R6-M | 5.6 | 30 | 10 | 11 | 8.0 | 9 |
|---------------|------|------|-----|-----|-----|-----|
| FXL0840-6R8-M | 6.8 | 36.8 | 8.0 | 9 | 7.0 | 8 |
| FXL0840-8R2-M | 8.2 | 46 | 7.7 | 8.7 | 6.0 | 7 |
| FXL0840-100-M | 10.0 | 59 | 7.0 | 8 | 5.5 | 6.5 |
| FXL0840-150-M | 15.0 | 71 | 4.9 | 5.5 | 4.8 | 5.4 |
| FXL0840-220-M | 22.0 | 113 | 4.5 | 5 | 4.2 | 4.8 |
| FXL0840-330-M | 33.0 | 156 | 3.3 | 3.5 | 3.0 | 3.5 |
| FXL0840-470-M | 47.0 | 225 | 2.9 | 3.1 | 2.5 | 2.9 |

FXL1030-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1030-R22-M | 0.22 | 1.2 | 44.24 | 50 | 29.2 | 33 |
| FXL1030-R33-M | 0.33 | 1.6 | 28.3 | 32 | 20.35 | 23 |
| FXL1030-R36-M | 0.36 | 1.6 | 24.8 | 28 | 20.35 | 23 |
| FXL1030-R47-M | 0.47 | 2.5 | 23.0 | 26 | 19.47 | 22 |
| FXL1030-R82-M | 0.82 | 3.7 | 20.35 | 23 | 15.93 | 18 |
| FXL1030-1R0-M | 1.0 | 6 | 18.58 | 21 | 13.27 | 15 |
| FXL1030-2R2-M | 2.2 | 9 | 12.38 | 14 | 9.73 | 11 |
| FXL1030-3R3-M | 3.3 | 16 | 10.61 | 12 | 7.96 | 9 |
| FXL1030-4R7-M | 4.7 | 24 | 8.84 | 10 | 6.19 | 7 |
| FXL1030-8R2-M | 8.2 | 45 | 6.2 | 7 | 4.42 | 5 |
| FXL1030-330-M | 33 | 160 | 3.53 | 4 | 2.3 | 2.6 |

FXL1040-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1040-R15-M | 0.15 | 0.65 | 60 | 75 | 40 | 45 |
| FXL1040-R22-M | 0.22 | 1 | 48 | 60 | 30 | 35 |
| FXL1040-R30-M | 0.30 | 1.1 | 36 | 50 | 30 | 35 |

| FXL1040-R36-M | 0.36 | 1.2 | 36 | 50 | 25 | 30 |
|---------------|------|------|------|-----|-----|-----|
| FXL1040-R47-M | 0.47 | 1.7 | 32 | 40 | 25 | 30 |
| FXL1040-R56-M | 0.56 | 1.8 | 26.4 | 33 | 20 | 25 |
| FXL1040-R68-M | 0.68 | 2.4 | 24 | 30 | 19 | 23 |
| FXL1040-R80-M | 0.80 | 2.7 | 23.2 | 29 | 19 | 23 |
| FXL1040-1R0-M | 1.0 | 3.3 | 22.4 | 28 | 16 | 19 |
| FXL1040-1R5-M | 1.5 | 4.2 | 19.2 | 26 | 14 | 16 |
| FXL1040-2R2-M | 2.2 | 7 | 13.2 | 18 | 10 | 12 |
| FXL1040-3R3-M | 3.3 | 11.8 | 12.8 | 16 | 9.5 | 11 |
| FXL1040-4R7-M | 4.7 | 20 | 10.4 | 15 | 7.5 | 9 |
| FXL1040-5R6-M | 5.6 | 22 | 9.6 | 12 | 6.8 | 8.5 |
| FXL1040-6R8-M | 6.8 | 25 | 9.6 | 12 | 7 | 8.5 |
| FXL1040-8R2-M | 8.2 | 27 | 7.2 | 9 | 6.8 | 8 |
| FXL1040-100-M | 10 | 30 | 6.8 | 8.5 | 6.9 | 7.8 |
| FXL1040-150-M | 15 | 45 | 5.6 | 7 | 5.6 | 6.5 |
| FXL1040-220-M | 22 | 66 | 4.4 | 5.5 | 4.2 | 5 |
| FXL1040-330-M | 33 | 92 | 3.84 | 5 | 3.8 | 4.4 |
| FXL1040-470-M | 47 | 145 | 3.1 | 3.5 | 2.8 | 3.3 |
| FXL1040-560-M | 56 | 185 | 2.5 | 3.2 | 2.2 | 2.8 |
| FXL1040-680-M | 68 | 195 | 2.4 | 3 | 2 | 2.5 |
| FXL1040-820-M | 82 | 285 | 2.3 | 2.8 | 2.1 | 2.3 |
| FXL1040-101-M | 100 | 340 | 2.1 | 2.3 | 1.8 | 2 |

FXL1050-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1050-R22-M | 0.22 | 0.8 | 57.5 | 65 | 32.5 | 37 |
| FXL1050-1R0-M | 1.0 | 3 | 28 | 30 | 20.3 | 23 |
| FXL1050-1R5-M | 1.5 | 3.8 | 22 | 25 | 18.5 | 21 |
| FXL1050-2R2-M | 2.2 | 6 | 16.8 | 19 | 13.2 | 15 |
| FXL1050-3R3-M | 3.3 | 10 | 14 | 16 | 11.5 | 13 |
| FXL1050-4R7-M | 4.7 | 14 | 13.2 | 15 | 9.7 | 11 |
| FXL1050-5R6-M | 5.6 | 17 | 12.3 | 14 | 8.5 | 9.5 |

| FXL1050-6R8-M | 6.8 | 18.5 | 12.3 | 14 | 8.0 | 9 |
|---------------|-----|------|------|-----|-----|-----|
| FXL1050-100-M | 10 | 28 | 8.8 | 10 | 7.0 | 8 |
| FXL1050-150-M | 15 | 42 | 6.5 | 7.5 | 5.7 | 6.5 |
| FXL1050-220-M | 22 | 50 | 5.3 | 6 | 5.0 | 5.5 |
| FXL1050-330-M | 33 | 86 | 4.6 | 5.2 | 4.2 | 4.8 |
| FXL1050-470-M | 47 | 127 | 4.0 | 4.5 | 3.2 | 3.7 |
| FXL1050-680-M | 68 | 180 | 2.8 | 3.5 | 2.4 | 2.7 |
| FXL1050-101-M | 100 | 290 | 2.5 | 2.8 | 1.8 | 2.1 |

FXL1340-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1340-R22-M | 0.22 | 0.9 | 40 | 50 | 38 | 42 |
| FXL1340-R47-M | 0.47 | 2 | 38.4 | 48 | 29 | 33 |
| FXL1340-R68-M | 0.68 | 3.5 | 37.6 | 47 | 24 | 28 |
| FXL1340-R82-M | 0.82 | 4.5 | 32 | 40 | 24 | 28 |
| FXL1340-1R0-M | 1.0 | 7.5 | 28 | 35 | 20 | 24 |
| FXL1340-1R5-M | 1.5 | 9.5 | 24.4 | 30.5 | 17 | 20 |
| FXL1340-2R2-M | 2.2 | 11.5 | 20.8 | 26 | 15 | 18 |
| FXL1340-3R3-M | 3.3 | 13 | 16.8 | 21 | 13 | 15 |
| FXL1340-4R7-M | 4.7 | 14.5 | 14.4 | 18 | 11 | 13 |
| FXL1340-6R8-M | 6.8 | 20 | 11.2 | 14 | 8 | 9 |
| FXL1340-100-M | 10 | 25 | 8 | 10 | 7 | 8 |
| FXL1340-150-M | 15 | 39 | 6 | 7.5 | 5.8 | 6.5 |
| FXL1340-220-M | 22 | 51 | 4.8 | 6 | 3.8 | 4.5 |

FXL1350-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1350-R22-M | 0.22 | 0.7 | 60 | 75 | 45 | 50 |
| FXL1350-R36-M | 0.36 | 0.85 | 40 | 50 | 37 | 42 |
| FXL1350-R50-M | 0.50 | 1.15 | 38.4 | 48 | 33 | 38 |
| FXL1350-R68-M | 0.68 | 1.55 | 36.8 | 46 | 29 | 33 |
| FXL1350-R82-M | 0.82 | 1.67 | 31.2 | 39 | 26 | 30 |
| FXL1350-1R0-M | 1.0 | 2.2 | 28 | 35 | 22 | 26 |
| FXL1350-1R5-M | 1.5 | 3.2 | 26.4 | 33 | 19 | 23 |
| FXL1350-2R2-M | 2.2 | 5 | 19.2 | 24 | 13 | 15 |
| FXL1350-3R3-M | 3.3 | 7 | 17.6 | 22 | 12 | 14 |
| FXL1350-4R7-M | 4.7 | 9 | 16 | 21 | 11 | 13 |
| FXL1350-6R8-M | 6.8 | 18 | 12.8 | 16 | 10 | 12 |
| FXL1350-8R2-M | 8.2 | 20 | 11 | 13 | 8.2 | 9.5 |
| FXL1350-100-M | 10 | 22 | 9.6 | 12 | 8 | 9 |
| FXL1350-150-M | 15 | 30 | 8 | 10 | 7 | 8 |
| FXL1350-220-M | 22 | 58 | 5.2 | 6.5 | 3.8 | 4.5 |
| FXL1350-330-M | 33 | 84 | 4.8 | 6 | 2.8 | 3.5 |
| FXL1350-470-M | 47 | 130 | 4.0 | 5 | 2.6 | 3 |

FXL1360-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1360-1R0-M | 1.0 | 2.3 | 28 | 31 | 24 | 28 |
| FXL1360-2R2-M | 2.2 | 4.2 | 24 | 28 | 18 | 22 |
| FXL1360-4R7-M | 4.7 | 9 | 19.2 | 24 | 12 | 15 |
| FXL1360-5R6-M | 5.6 | 11 | 18 | 22.5 | 11 | 13 |
| FXL1360-6R8-M | 6.8 | 13.5 | 15.2 | 19 | 10 | 12 |

| FXL1360-8R2-M | 8.2 | 16 | 10.8 | 13.5 | 9 | 11 |
|---------------|-----|------|------|------|------|-----|
| FXL1360-100-M | 10 | 20.7 | 11.1 | 12.5 | 8.5 | 10 |
| FXL1360-120-M | 12 | 23 | 8 | 10 | 5.8 | 7 |
| FXL1360-150-M | 15 | 29 | 7.2 | 9 | 4.9 | 6 |
| FXL1360-180-M | 18 | 35 | 6.4 | 8 | 4.3 | 5 |
| FXL1360-220-M | 22 | 39.5 | 6 | 7.5 | 4.15 | 5 |
| FXL1360-270-M | 27 | 56 | 5.2 | 6.5 | 3.3 | 4 |
| FXL1360-330-M | 33 | 75 | 4.8 | 6 | 3.15 | 4 |
| FXL1360-470-M | 47 | 90 | 4.4 | 5.5 | 2.9 | 3.5 |
| FXL1360-680-M | 68 | 140 | 3.6 | 4.5 | 2.5 | 3 |
| FXL1360-101-M | 100 | 200 | 2.8 | 3.5 | 2.1 | 2.5 |
| FXL1360-121-M | 120 | 235 | 2.56 | 3.2 | 1.7 | 2 |
| FXL1360-151-M | 150 | 350 | 2.16 | 2.7 | 1.2 | 1.5 |

FXL1365-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1365-2R2-M | 2.2 | 4.2 | 22.4 | 28 | 16.8 | 21 |
| FXL1365-4R7-M | 4.7 | 8.5 | 20 | 24 | 13 | 16 |
| FXL1365-5R6-M | 5.6 | 10.5 | 18 | 22.5 | 12 | 14 |
| FXL1365-6R8-M | 6.8 | 12 | 17 | 19 | 11 | 13 |
| FXL1365-8R2-M | 8.2 | 14 | 14 | 16 | 9 | 12 |
| FXL1365-100-M | 10 | 16.5 | 13.5 | 13.5 15 | 10 | 11 |
| FXL1365-150-M | 15 | 26 | 8 | 11 | 6.5 | 9.5 |
| FXL1365-220-M | 22 | 36 | 7 | 9 | 6 | 8 |
| FXL1365-330-M | 33 | 65 | 6 | 8 | 4.8 | 6.5 |
| FXL1365-470-M | 47 | 70 | 5 | 6.8 | 4.5 | 5.5 |
| FXL1365-680-M | 68 | 120 | 4.8 | 5.2 | 4.0 | 4.8 |
| FXL1365-820-M | 82 | 135 | 4 | 4.5 | 3.5 | 4 |
| FXL1365-101-M | 100 | 170 | 3.2 | 4 | 3 | 3.5 |

FXL1770-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL1770-2R2-M | 2.2 | 2.5 | 30 | 34 | 25.5 | 29 |
| FXL1770-3R3-M | 3.3 | 3.95 | 26 | 30 | 21 | 24 |
| FXL1770-4R7-M | 4.7 | 4.75 | 21 | 24 | 18.5 | 21 |
| FXL1770-6R8-M | 6.8 | 7.5 | 19.5 | 22 | 15 | 17 |
| FXL1770-8R2-M | 8.2 | 8.7 | 17.5 | 20 | 11.5 | 13 |
| FXL1770-100-M | 10 | 9.9 | 16.5 | 19 | 10.5 | 12 |
| FXL1770-150-M | 15 | 17 | 12.5 | 14.5 | 9.5 | 11 |
| FXL1770-220-M | 22 | 23 | 10 | 11.5 | 7.5 | 8.5 |
| FXL1770-330-M | 33 | 37 | 8.5 | 10 | 7 | 8 |
| FXL1770-470-M | 47 | 47 | 6.5 | 7.5 | 5.3 | 6 |
| FXL1770-680-M | 68 | 85 | 5.5 | 6.5 | 4.5 | 5.2 |
| FXL1770-101-M | 100 | 130 | 4.4 | 5 | 3.2 | 3.7 |

FXL2213-XXX series

| Part No. | Inductance | DC Resistance | Saturation Current | Saturation Current | Heating Rating Current | Heating Rating Current |
|---------------|--------------------|---------------|-----------------------|-----------------------|------------------------------|------------------------------|
| | L0 (µH) | DCR (mΩ) | Isat (A) | Isat (A) | Irms (A) | Irms (A) |
| | ±20 %, 100 kHz, 1V | MAX. | MAX | TYP. | MAX | TYP. |
| FXL2213-1R0-M | 1.0 | 0.95 | 54 | 60 | 65 | 70 |
| FXL2213-1R5-M | 1.5 | 1.15 | 48 | 52 | 57 | 62 |
| FXL2213-2R2-M | 2.2 | 1.25 | 43 | 48 | 52 | 58 |
| FXL2213-3R3-M | 3.3 | 1.75 | 37 | 41 | 47 | 49 |
| FXL2213-4R7-M | 4.7 | 2.2 | 34 | 38 | 44 | 47 |
| FXL2213-6R8-M | 6.8 | 3.1 | 32 | 36 | 36 | 40 |
| FXL2213-100-M | 10 | 4.15 | 20 | 28 | 30 | 33 |
| FXL2213-150-M | 15 | 6.12 | 18 | 23 | 23 | 26 |
| FXL2213-220-M | 22 | 11 | 14 | 15 | 18 | 22 |
| FXL2213-330-M | 33 | 15.4 | 10.5 | 12 | 16 | 19 |
| FXL2213-470-M | 47 | 20.8 | 10 | 12 | 14 | 17 |
| FXL2213-680-M | 68 | 29.5 | 9 | 12 | 12 | 14 |

| FXL2213-820-M | 82 | 34.2 | 7.7 | 9 | 10 | 12 |
|---------------|-----|------|-----|---|-----|----|
| FXL2213-101-M | 100 | 40 | 7.5 | 9 | 9.5 | 11 |

Notes

- 1. All test data is referenced to 25 °C ambient
- 2. Operating temperature range 55 °C to + 125 °C
- 3. Isat (A) MAX: DC current at which the inductance drops approximately 30% from its value without current.
- 4. Irms (typ):DC current that causes the temperature rise(AT = 40 C) form 25°C ambient
- 5. Irms (Max):DC current that causes the temperature rise(AT = 20° C)form 25° C ambient
- 6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions, all affect the part temperature. Part temperature should be verified in the end application.
- 7. For FXL series inductors, absolute maximum voltage: DC 30V.

| Mechanical Relia | bility | | | | | |
|--------------------------------|---|---|--|--|--|--|
| Item | Specification and Requirement | Test Method | | | | |
| Solderability | No case deformation or change in apperarance New solder coverage More than 95% | 1.Preheat: $155^{\circ}C\pm5^{\circ}C$, $60S\pm2S$ 2.Tin: lead-free. 3.Temperature:240 $^{\circ}C\pm5^{\circ}C$, flux $3.0S\pm0.5S$. | | | | |
| Mechanical shock | 1. No case deformation or change in apperarance 2. △L/Lo ≤ ±10% | Acceleration: 100G Pulse time: 6ms 3 times in each positive and negative direction of 3 mutual perpendicular directions | | | | |
| Mechanical vibration | 1. No case deformation or change in apperarance 2. △L/Lo≦±10% | Reflow: 2times Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles Amplitude: 1.52 mm Directions: X,Y,Z Time: 12 cycle / direction | | | | |
| Endurance Relia | bility | | | | | |
| Item | Specification and Requirement | Test Method | | | | |
| Thermal Shock | Inductance change: Within \pm 10% Without distinct damage in appearance | First -55°C for 30 minutes, last 125°C for 30 minutes as 1 cycle. Go through 1000 cycles. Max transfer time is 3 minutes. Measured at room temperature after placing for 24±2 hours | | | | |
| Humidity Resistance | Inductance change: Within \pm 10% Without distinct damage in appearance | 1.Reflow 2 times, 2.85 $^\circ\!$ | | | | |
| Low temperature storage | Inductance change: Within \pm 10% Without distinct damage in appearance | 1. Temperature: -55 \pm 2°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 \pm 2 hours | | | | |
| High temperature storage | Inductance change: Within \pm 10% Without distinct damage in appearance | Temperature: +125 ± 2°C Time: 1000 hours Measured at room temperature after placing for 24±2 hours | | | | |

Recommended Soldering Technologies

(1)Re-flowing Profile

Preheat condition: 150 ~200 °C/60~120sec.

Allowed time above 217°C: 60~90sec.

Max temp: 260°C

Max time at max temp: 10 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max

(2)Iron Soldering Profile

Iron soldering power: Max. 30W

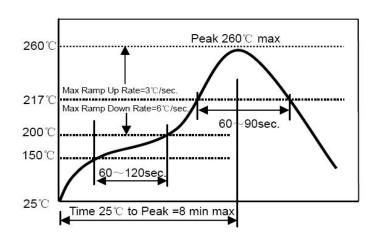
Pre-heating: 150°C/60sec.

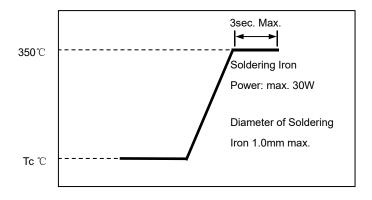
Soldering Tip temperature: 350 ℃ Max.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

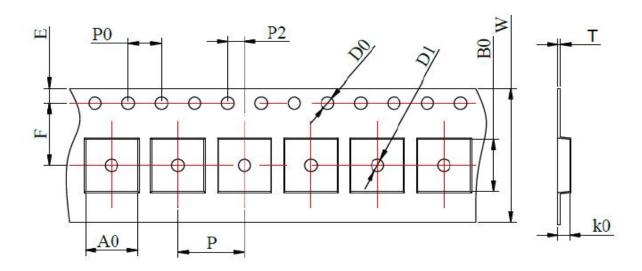
Max.1 times for iron soldering





Packaging Information

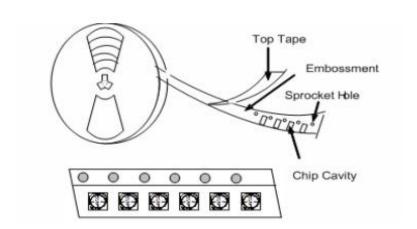
(1) Tape Packaging Dimensions (Unit: mm)

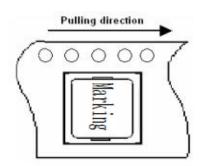


| Turno | | | | | Тар | e dimer | nsions (r | nm) | | | | |
|------------|------|------|------|-------|------|---------|-----------|------|------|-------|------|------|
| Туре | W | Р | P0 | P2 | D0 | D1 | Т | A0 | В0 | K0 | Е | F |
| FXL0412 | 12 | 8 | 4 | 2 | 1.5 | 1.5 | 0.35 | 4.5 | 4.85 | 1.5 | 1.75 | 5.5 |
| FALU412 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0420 | 12 | 8 | 4 | 2 | 1.5 | 1.5 | 0.35 | 4.5 | 4.85 | 2.3 | 1.75 | 5.5 |
| 1 AL0420 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0518 | 12 | 8 | 4 | 2 | 1.5 | 1.5 | 0.35 | 5.5 | 5.9 | 2.0 | 1.75 | 5.5 |
| 1 XLOOTO | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.01 | ±0.1 | ±0.1 |
| FXL0530 | 12 | 8 | 4 | 2 | 1.5 | 1.5 | 0.35 | 5.5 | 5.9 | 3.3 | 1.75 | 5.5 |
| 1 XE0330 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0615 | 16 | 12 | 4 | 2 | 1.5 | 1.5 | 0.35 | 6.9 | 7.5 | 1.7 | 1.75 | 7.5 |
| 1 // 20010 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0618 | 16 | 12 | 4 | 2 | 1.5 | 1.5 | 0.35 | 6.9 | 7.5 | 2.1 | 1.75 | 7.5 |
| 1 // 20010 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0624 | 16 | 12 | 4 | 2 | 1.5 | 1.5 | 0.35 | 6.9 | 7.5 | 2.7 | 1.75 | 7.5 |
| 1 AL0024 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0630 | 16 | 12 | 4 | 2 | 1.5 | 1.5 | 0.35 | 7.0 | 7.7 | 3.3 | 1.75 | 7.5 |
| 1 7/20000 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0640 | 16 | 12 | 4 | 2 | 1.5 | 1.5 | 0.4 | 6.9 | 7.5 | 4.3 | 1.75 | 7.5 |
| 1 7/20040 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0650 | 16 | 12 | 4 | 2 | 1.5 | 1.5 | 0.4 | 6.9 | 7.5 | 5.4 | 1.75 | 7.5 |
| 1 AL0030 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL0840 | 24 | 16 | 4 | 2 | 1.55 | 1.55 | 0.35 | 8.9 | 10.1 | 4.4 | 1.75 | 11.5 |
| 1 7/20040 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL1030 | 24 | 16 | 4 | 2 | 1.5 | 1.5 | 0.35 | 10.4 | 11.6 | 3.3 | 1.75 | 11.5 |
| 1 XL 1030 | ±0.3 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL1040 | 24 | 16 | 4 | 2 | 1.5 | 1.5 | 0.35 | 10.4 | 11.6 | 4.3 | 1.75 | 11.5 |
| 1 AL 1040 | ±0.3 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL1050 | 24 | 16 | 4 | 2 | 1.5 | 1.5 | 0.4 | 10.4 | 11.6 | 5.4 | 1.75 | 11.5 |
| I AL 1000 | ±0.3 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL1340 | 24 | 16 | 4.0 | 2.0 | 1.5 | 1.5 | 0.5 | 13.1 | 14 | 4.3 | 1.75 | 11.5 |
| I ALIOTO | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |

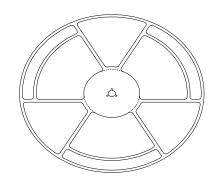
| EVI 1250 | 24 | 16 | 4.0 | 2.0 | 1.5 | 1.5 | 0.5 | 13.1 | 14 | 5.4 | 1.75 | 11.5 |
|----------|------|------|------|-----------|------|------------|------------|-----------|-----------|-----------|------|-----------|
| FXL1350 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ± 0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL1360 | 24 | 16 | 4.0 | 2.0 | 1.5 | 1.5 | 0.5 | 13.1 | 14 | 6.3 | 1.75 | 11.5 |
| FALISOU | ±0.3 | ±0.1 | ±0.1 | ± 0.1 | ±0.1 | ±0.1 | ± 0.05 | ± 0.1 | ± 0.1 | ± 0.1 | ±0.1 | ±0.1 |
| FXL1365 | 24 | 16 | 4.0 | 2.0 | 1.5 | 1.5 | 0.5 | 13.1 | 14 | 6.8 | 1.75 | 11.5 |
| FALISOS | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ± 0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL1770 | 32 | 24 | 4.0 | 2.0 | 1.5 | 0.5 | 17.5 | 18.1 | 7.3 | 1.75 | 14.2 | 14.2 |
| FALI770 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ± 0.05 | ±0.1 | ± 0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| FXL2213 | 44 | 32 | 4.0 | 2.0 | 1.5 | 0.5 | 23 | 24.4 | 13.5 | 1.75 | 20.2 | 44 |
| FALZZIS | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ± 0.05 | ±0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ±0.1 | ± 0.3 |

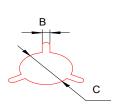
Taping Drawings (UNIT:mm)

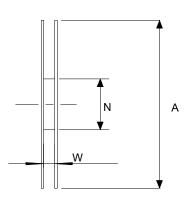




(2) Reel Dimensions (Unit: mm)







| Туре | А | W | N | В | С |
|---------|---------|----------|--------|---------|----------|
| FXL0412 | 330+2.0 | 12.8±0.2 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL0420 | 330+2.0 | 12.8±0.2 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL0518 | 330+2.0 | 12.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0530 | 330+2.0 | 12.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0615 | 330+2.0 | 16.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0618 | 330+2.0 | 16.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0624 | 330+2.0 | 16.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0630 | 330+2.0 | 16.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0640 | 330+2.0 | 16.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0650 | 330+2.0 | 16.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 |
| FXL0840 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1030 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1040 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1050 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1340 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1350 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1360 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |
| FXL1365 | 330+2.0 | 24±0.5 | 97±0.5 | 2.2+0.5 | 13.0±0.2 |

| FXL1770 | 330±2.0 | 32.0±0.5 | 97±0.5 | 2.3±0.3 | 13.0±0.2 |
|---------|---------|----------|--------|---------|----------|
| FXL2213 | 330±2.0 | 44.0±0.5 | 97±0.5 | 2.3±0.3 | 13.0±0.2 |

(3) Packaging Quantity

| T. m. c | Standard Quantity | | | | |
|---------|-------------------|-------------------------|---------------------------------|--|--|
| Туре | Reel | Inner box | Carton box | | |
| FXL0412 | 3000 pcs / reel | 4Reel / box (12000 pcs) | 3 Middle boxes, (36,000 pcs) | | |
| FXL0420 | 3000 pcs / reel | 4Reel / box (12000 pcs) | 3 Middle boxes, (36,000 pcs) | | |
| FXL0518 | 2000 pcs / reel | 4Reel / box (8000 pcs) | 3 Middle boxes, (24000 pcs) | | |
| FXL0530 | 2000 pcs / reel | 4Reel / box (8000 pcs) | 3 Middle boxes, (24000 pcs) | | |
| FXL0615 | 2000 pcs / reel | 3Reel / box (6000 pcs) | 3 Middle boxes, (18000 pcs) | | |
| FXL0618 | 1500 pcs / reel | 3Reel / box (4500 pcs) | 3 Middle boxes, (13500 pcs) | | |
| FXL0624 | 1500 pcs / reel | 3Reel / box (4500 pcs) | 3 Middle boxes, (13500 pcs) | | |
| FXL0630 | 1500 pcs / reel | 3Reel / box (4500 pcs) | 3 Middle boxes, (13500 pcs) | | |
| FXL0640 | 1000 pcs / reel | 3Reel / box (3000 pcs) | 3 Middle boxes, (9000 pcs) | | |
| FXL0650 | 1000 pcs / reel | 3Reel / box (3000 pcs) | 3 Middle boxes, (9000 pcs) | | |
| FXL0840 | 800 pcs / reel | 2Reel / box (1600 pcs) | 3 Middle boxes, (4800 pcs) | | |
| FXL1030 | 800 pcs / reel | 2Reel / box (1600 pcs) | 3Middle boxes, (4800 pcs) | | |
| FXL1040 | 500 pcs / reel | 2Reel / box (1000 pcs) | 3 Middle boxes, (3000 pcs) | | |
| FXL1050 | 500 pcs / reel | 2Reel / box (1000 pcs) | 3 Middle boxes, (3000 pcs) | | |
| FXL1340 | 500 pcs / reel | 2Reel / box (1000 pcs) | 3 Middle boxes, (3000 pcs) | | |
| FXL1350 | 500 pcs / reel | 2Reel / box (1000 pcs) | 3 Middle boxes, (3000 pcs) | | |
| FXL1360 | 500 pcs / reel | 2Reel / box (1000 pcs) | 3 Middle boxes, (3000 pcs) | | |

| FXL1365 | 500 pcs / reel | 2Reel / box (1000 pcs) | 3 Middle boxes, (3000 pcs) |
|---------|----------------|------------------------|--------------------------------|
| FXL1770 | 200 pcs / reel | 2Reel / box (400 pcs) | 3 Middle boxes, (12000 pcs) |
| FXL2213 | 80 pcs / reel | 1Reel / box (80 pcs) | Middle boxes, (240 pcs) |

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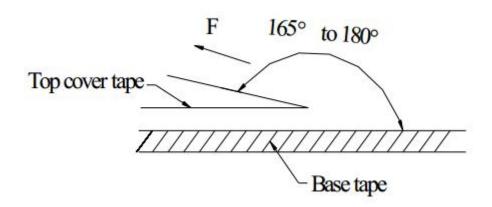
SZ CJIANG TECHNOLOGY CO.,LTD

标签

(4) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(5) Reel Label

Label on the reel

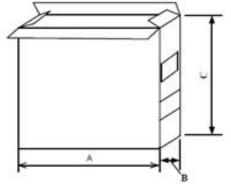
- Customer's part Number
- Lot Number
- Quantity
- · date code

Shipping Label

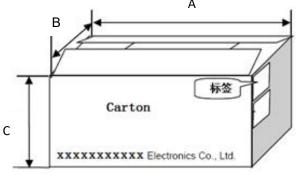
- Quantity
- · date code

(6) Inner Box





| Packaging type | A(mm) | B (mm) | B (mm) |
|----------------|-------|--------|--------|
| inner box | 354 | 335 | 86 |



| Packaging type | A (mm) | B (mm) | B (mm) |
|----------------|--------|--------|--------|
| type | 370 | 365 | 285 |