

Resistors Product Change Notification

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|---|--|
| PCN Number | PCN-2022-RBU18 |
| PCN Title | Datasheet Update – LR Series |
| PCN Date | 11 th October 2022 |
| Type of Change | <input type="checkbox"/> End of Life Notification <input type="checkbox"/> Material Change <input type="checkbox"/> Manufacturing Facility Change or Addition <input type="checkbox"/> Process Change <input checked="" type="checkbox"/> Datasheet Specification Change <input type="checkbox"/> Design Change <input type="checkbox"/> Other: |
| Manufacturing Location(s) Affected | TT Electronics Bedlington |
| Date of Change Implementation | 11 th October 2022 |

Products Affected

| TT Series | Datasheet Link |
|-----------|---|
| LR Series | https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Datasheets/LR.pdf |

Change Detail

| | |
|--|---|
| Description of Change | Update to the LR Series Datasheet to reflect changes to the TCR parameters with respect to value breaks. There will be no change to the product form, fit or function and this PCN is for notification only. See Appendix 1. |
| Reason for Change | To ensure datasheet is in line with true TCR parameters. |
| Implementation Plan | With immediate effect |
| Customer Impact | Product form, fit or function is unchanged. |
| Recommendations | Please contact your local Sales / FAE team for assistance if required. |
| Availability of Previously Manufactured Product | N/A |
| Availability of Approval Samples | N/A |
| Sales Contacts | Americas: Kevin Marzano kevin.marzano@ttelectronics.com Europe: Claudia Patzak-Kruger Claudia.patzak@ttelectronics.com Asia: Janson Chuen janson.chuen@ttelectronics.com |

| Approvals | | | |
|-------------|------------------|-----------------------|-------------------|
| | Name | Title | Date |
| Issued by | Mark Beeston | Product Line Manager | 11th October 2022 |
| Approved by | Heather Baird | VP Product Management | 11th October 2022 |
| Approved by | Klaus Zwerschina | Global Sales Director | 11th October 2022 |

Appendix 1

Before Version

Electrical Data

| | | LR(F)1206 | LR(F)2010 | LR(F)2512 |
|-----------------------------------|-----------------|---|-----------|-----------|
| Power rating @70°C | watts | 0.5 | 1 | 2 |
| Resistance range ¹ | ohms | R003 to 1R0 | | |
| Resistance tolerance ¹ | % | <R01: 5, ≥R01: 1, 2, 5 | | |
| TCR | ppm/°C | ≥R05: ±100, R025-R047: <+200, R015-R024: <+300, R01-R014: <+500, <R01: <+900 | | |
| Dielectric withstand | volts | 200 | | |
| Ambient temperature range | °C | -55 to +150 | | |
| Values | | E24 preferred ² | | |
| Temperature rise at rated power | °C | 40 | 80 | 90 |
| Pad / trace area ³ | mm ² | 30 | 100 | 300 |

Note 1: Contact factory for value – tolerance combinations outside this range. Note 2: Many values = N x R001 and N x R005 up to N=10 are also available. Note 3: Recommended minimum pad & adjacent trace area for each termination for rated dissipation on FR4 PCB

After Version

Electrical Data

| | | LR(F)1206 | LR(F)2010 | LR(F)2512 |
|-----------------------------------|-----------------|--|-----------|-----------|
| Power rating @70°C | watts | 0.5 | 1 | 2 |
| Resistance range ¹ | ohms | R003 to 1R0 | | |
| Resistance tolerance ¹ | % | <R01: 5, ≥R01: 1, 2, 5 | | |
| TCR | ppm/°C | ≥R05: ±100, R025-R047: <+500, <R025: <+900 | | |
| Dielectric withstand | volts | 200 | | |
| Ambient temperature range | °C | -55 to +150 | | |
| Values | | E24 preferred ² | | |
| Temperature rise at rated power | °C | 40 | 80 | 90 |
| Pad / trace area ³ | mm ² | 30 | 100 | 300 |

Note 1: Contact factory for value – tolerance combinations outside this range. Note 2: Many values = N x R001 and N x R005 up to N=10 are also available. Note 3: Recommended minimum pad & adjacent trace area for each termination for rated dissipation on FR4 PCB