

## Lead Free and RoHS Information for Fastron Products

| Product Family<br>-Series                                     | Lead Free | RoHS<br>Compliant | Resistance to soldering heat          |                                 |                          |                                  | Plating/<br>Metallization of Terminals/<br>Leads |
|---|-----------|-------------------|---------------------------------------|---------------------------------|--------------------------|----------------------------------|--|
|   |           |                   | IEC<br>60068-2-20<br>(Wave Soldering) | IEC<br>60068-2-58<br>(Dip test) | JEDEC<br>20E<br>(Reflow) | Maximum<br>Solder<br>Temperature |  |
| <b>Chip Inductors for RF Applications (Wire Wound - open)</b> |           |                   |                                       |                                 |                          |                                  |  |
| 0402AQC   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 0402AS  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0402ASM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 0402F   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0603AQ  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0603AS  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0603ASM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 0603F   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 063FLP  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0805AQ  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0805AS  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 0805ASM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 0805F   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 1008AS  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 1008ASM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 1008F   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 1206AS  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 1206ASM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 1206F   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 1210AS  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |
| 1210ASM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Silver-Palladium-Platinum                        |
| 1210F   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Gold-flash                                       |

| Product Family -Series                       | Lead Free | RoHS Compliant | Resistance to soldering heat    |                           |                    |                            | Plating/ Metallization of Terminals/ Leads |
|--|-----------|----------------|---------------------------------|---------------------------|--------------------|----------------------------|--|
|  |           |                | IEC 60068-2-20 (Wave Soldering) | IEC 60068-2-58 (Dip test) | JEDEC 20E (Reflow) | Maximum Solder Temperature |  |
| 1812AF                                       | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Gold-flash                                 |
| 1812AS                                       | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Gold-flash                                 |
| 1812ASM                                      | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Silver-Palladium-Platinum                  |
| <b>Chip Inductors for Power Applications</b> |           |                |                                 |                           |                    |                            |  |
| 1212FPS                                      | Yes       | Yes            | N/A                             | Yes                       | Yes                | 250 +/-10°C, 5 sec         | Sn   |
| 1616FPS                                      | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| 242408FPS                                    | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| 242418FP                                     | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| 242418FPS                                    | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| <b>Common Mode Filter Chip Inductors</b>     |           |                |                                 |                           |                    |                            |  |
| 1210CMF                                      | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| 1812CMF                                      | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| 1812CMF/E                                    | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |
| <b>Transponder Coils for RFID</b>            |           |                |                                 |                           |                    |                            |  |
| 1210FTC                                      | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Gold-flash                                 |
| 1812AFTC                                     | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Gold-flash                                 |
| 4408AF                                       | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Gold-flash                                 |
| 4408AQ                                       | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Gold-flash                                 |
| <b>Leaded Inductors (Fixed Choke Coils)</b>  |           |                |                                 |                           |                    |                            |  |
| 05CCM  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |

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|---------------------------|-----------|-------------------|---------------------------------------|---------------------------------|--------------------------|----------------------------------|--|
|                           |           |                   | IEC<br>60068-2-20<br>(Wave Soldering) | IEC<br>60068-2-58<br>(Dip test) | JEDEC<br>20E<br>(Reflow) | Maximum<br>Solder<br>Temperature |  |
| 06CCM                     | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| 08CCM                     | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| 12CCM                     | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| HACC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| HACC-4R7K to<br>HACC-8R2K | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| HBCC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| HBCC-1R0K to<br>HBCC-8R2K | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| HCCC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| LACC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| MECC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| MICC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| MICC-1R0K to<br>MICC-150K | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| MICCS                     | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| SMCC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| VHBCC                     | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| XHBCC                     | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| XHBHV                     | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| <b>Suppression Coils</b>  |           |                   |                                       |                                 |                          |                                  |  |
| 77A                       | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| LASC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| LSSC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |
| MESC                      | Yes       | Yes               | Yes                                   | Yes                             | N/A                      | 260°C, 10 sec                    | Sn   |

| Product Family -Series                      | Lead Free | RoHS Compliant | Resistance to soldering heat    |                           |                    |                            | Plating/<br>Metallization of Terminals/<br>Leads |
|---|-----------|----------------|---------------------------------|---------------------------|--------------------|----------------------------|--|
|   |           |                | IEC 60068-2-20 (Wave Soldering) | IEC 60068-2-58 (Dip test) | JEDEC 20E (Reflow) | Maximum Solder Temperature |  |
| MISC  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| MSSC  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| SMSC  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| SSSC  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| <b>Pluggable Inductors (Pin Type Coils)</b> |           |                |                                 |                           |                    |                            |  |
| 05HCP, 05HCP/T                              | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 07HCP, 07HCP/T                              | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 07HCPLP, 07HCPLP/T                          | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 07HVP, 07HVP/T                              | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 07M, 07MFG                                  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 07P, 07P/F                                  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 09HCP, 09HCP/T                              | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 09HVP, 09HVP/T                              | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 09P, 09P/F                                  | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 11P   | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 11PHC                                       | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| 14HVP, 14HVP/T                              | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| <b>Wide Band Chokes and Beads</b>           |           |                |                                 |                           |                    |                            |  |
| 06H   | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| Leaded Beads                                | Yes       | Yes            | Yes                             | Yes                       | N/A                | 260°C, 10 sec              | Sn   |
| SMD Beads                                   | Yes       | Yes            | N/A                             | Yes                       | Yes                | 260°C, 10 sec              | Sn   |

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|--|-----------|-------------------|---------------------------------------|---------------------------------|--------------------------|----------------------------------|--|
|  |           |                   | IEC<br>60068-2-20<br>(Wave Soldering) | IEC<br>60068-2-58<br>(Dip test) | JEDEC<br>20E<br>(Reflow) | Maximum<br>Solder<br>Temperature |  |
| <b>SMD Power Inductors (with tube / also shielded)</b> |           |                   |                                       |                                 |                          |                                  |  |
| PISG   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Ag, Pd, Ni, Sn                                   |
| PISL   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISM   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISN   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISR   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| SPISM  | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISMHV   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISNHV   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISP   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISPHV   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PIST   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISTHV   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PIHV4119   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA2408   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA2416   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA2812   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA2816   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA4119   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA4716   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA4720   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |
| PISA4728   | Yes       | Yes               | N/A                                   | Yes                             | Yes                      | 260°C, 10 sec                    | Sn   |

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|---------------------------------|-----------|-------------------|---------------------------------------|---------------------------------|--------------------------|----------------------------------|--|
|                                 |           |                   | IEC<br>60068-2-20<br>(Wave Soldering) | IEC<br>60068-2-58<br>(Dip test) | JEDEC<br>20E<br>(Reflow) | Maximum<br>Solder<br>Temperature |  |
| <b>Rod Core Chokes (RCC)</b>    |           |                   |                                       |                                 |                          |                                  |  |
| 3RCC                            | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| 4RCC                            | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| 5RCC                            | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| 6RCC                            | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| <b>Toroid Line Chokes (TLC)</b> |           |                   |                                       |                                 |                          |                                  |  |
| TLC/0.1A                        | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| TLC/0.25A                       | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| TLC/0.5A                        | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| TLC/1A                          | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| TLC/2.5A                        | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| TLC/5A                          | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |
| TLC/10A                         | Yes       | Yes               | Yes                                   | Yes                             | Yes                      | --                               | Tin  |

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