

6.7 INDUCTORS (07)

6.7.1 Fixed, RF

| INDUCTORS, FIXED, RF,<br>MINIATURE, MOULDED, SURFACE MOUNT,<br>BASED ON SERIES MSC1 10k, 12k, 20k and H01 |                                                        |                    |                       | 241J                          |                               |                                       |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------|-----------------------|-------------------------------|-------------------------------|---------------------------------------|
| Procurement Specifications                                                                                | Manufacturer                                           | Nature of Approval | Supervising Authority | Initial Qualification Date    |                               |                                       |
| Generic<br>ESCC 3201<br>Detail ESCC<br>3201/008                                                           | Exxelia Magnetics<br>(Microspire)<br>Illange<br>France | Qualification      | ESA/ESTEC             | Jun 2016                      |                               |                                       |
|                                                                                                           |                                                        | Remarks            |                       |                               |                               |                                       |
| Qualified range:                                                                                          |                                                        |                    |                       |                               |                               |                                       |
| Variants 01 to 05 are qualified                                                                           |                                                        |                    |                       |                               |                               |                                       |
| Series No.                                                                                                | Range (μH)                                             | Tolerance (±%)     | Q min.                | Min. SRF f <sub>r</sub> (MHz) | Max. DCR, R <sub>dc</sub> (Ω) | Rated DC Current, I <sub>R</sub> (mA) |
| 10k                                                                                                       | 0.010- 10                                              | 2.0, 5.0, 10       | 60 - 42               | 1000 -33                      | 0.025 -3.3                    | 750 - 87                              |
| 12k                                                                                                       | 12- 1000                                               | 2.0, 5.0, 10       | 56 - 12               | 26 - 1.5                      | 2.0 - 120                     | 110 - 15                              |
| 20k                                                                                                       | 0.010 -1000                                            | 10                 | 75 - 30               | 1000 - 1.7                    | 0.04 - 80                     | 1000 - 25                             |
| H01                                                                                                       | 0.380 - 100                                            | 15                 | 30                    | 8                             | 0.029 - 3.8                   | 1500 - 100                            |
| Dielectric Withstanding Voltage (DWV): 200 Vrms                                                           |                                                        |                    |                       |                               |                               |                                       |
| Operating Temperature Range (°C): -55 to +125                                                             |                                                        |                    |                       |                               |                               |                                       |

6.7.2 Power

|                                                                                                                                            |                                                        |      |      |                                                 |                       |                            |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|------|-------------------------------------------------|-----------------------|----------------------------|------|------|
| INDUCTORS, POWER, MOULDED,<br>SURFACE MOUNT,<br>BASED ON SERIES SESI AND CMC                                                               |                                                        |      |      |                                                 |                       |                            | 276F |      |
| Procurement Specifications                                                                                                                 | Manufacturer                                           |      |      | Nature of Approval                              | Supervising Authority | Initial Qualification Date |      |      |
| Generic<br>ESCC 3201<br>Detail ESCC<br>3201/009<br>3201/010                                                                                | Exxelia Magnetics<br>(Microspire)<br>Illange<br>France |      |      | Qualification                                   | ESA/ESTEC             | Jun 2016                   |      |      |
|                                                                                                                                            |                                                        |      |      | Remarks<br>Termination finish shall be Sn60Pb40 |                       |                            |      |      |
| Qualified range:<br><br>3201/009: Variants 01 to 08 are qualified<br>3201/010 Variants 01, 03 and 05 are qualified<br><br>Component types: |                                                        |      |      |                                                 |                       |                            |      |      |
| 3201/009                                                                                                                                   |                                                        |      |      |                                                 |                       |                            |      |      |
| SESI                                                                                                                                       | 14SR                                                   | 15SR | 15WR | 18WR                                            | 9.1WR                 | 22WR                       | 32WR | 32PR |
| Variant                                                                                                                                    | 01                                                     | 02   | 03   | 04                                              | 05                    | 06                         | 07   | 08   |
| 3201/010                                                                                                                                   |                                                        |      |      |                                                 |                       |                            |      |      |
| CMC                                                                                                                                        | 15WR                                                   | 18WR | 22WR |                                                 |                       |                            |      |      |
| Variant                                                                                                                                    | 01                                                     | 03   | 05   |                                                 |                       |                            |      |      |
| Operating Temperature Range (°C): -55 to +125                                                                                              |                                                        |      |      |                                                 |                       |                            |      |      |