| | |
|---|---|
| Révision date : 10/10/2016<br>SPIL reference : I-F3295-C<br>NXP ref : OM15061-1_ JN5179 µFl MODULE_M13<br>Customer : NXP<br>Done by SPIL | NXP Semiconducteurs<br>2, Esplanade Anton Philips<br>BP 2000 - COLOMBELLES<br>14906 CAEN CEDEX 9 |

Note : the yellow cells show the alternative components references that can be used in production.

| Item | Quantity | RefDes | Value | Orientation | X(um) | Y(um) | Designation | PCBFootprint | Manufacturer P/N | Manufacturer | SPIL P/N |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | C2 | 1p8F | 180 | 10984.7 | 6465.2 | CER CHIP C 1.8pF ±0.25pF NP0 0402 50V | C0402 | CC0402CRNPO9BN1R8 | YAGEO | 07-300052-01 |
| | | | | | | | CER CHIP C 1.8pF ±0.25pF C0G 0402 50V | C0402 | GRM1555C1H1R8CA01D | MURATA | 07-300053-01 |
| 2 | 5 | C3<br>C6<br>C7<br>C9<br>C13 | 100nF | 270<br>0<br>270<br>180<br>90 | 10418.2<br>8842.1<br>8079<br>3112.6<br>2062.2 | 4494.4<br>3735<br>2476.7<br>11212.6<br>8105.1 | CER CHIP C 0.1uF 10% X5R 0201 6.3V | C0201 | GRM033R60J104KE19D | MURATA | 07-010401-01 |
| 3 | 1 | C4 | 47pF | 270 | 11104.1 | 4494.4 | CER CHIP C 47pF 5% C0G 0201 50V | C0201 | GRM0335C1H470JA01D | MURATA | 07-047002-02 |
| 4 | 1 | C5 | 10nF | 270 | 8918.5 | 2481.3 | CER CHIP C 0.01uF 10% X7R 0201 10V | C0201 | GRM033R71A103KA01D | MURATA | 07-010302-01 |
| 5 | 2 | C8 | 12pF | 270 | 7279.1 | 2614.2 | CER CHIP C 12pF 5% C0G 0201 25V | C0201 | GRM0335C1E120JA01D | MURATA | 07-012001-01 |
| | | C14 | | 90 | 3861 | 1958.8 | CER CHIP C 12pF 5% C0G 0201 50V | C0201 | GRM0335C1H120JA01D | MURATA | 07-012003-02 |
| 6 | 1 | C16 | 10uF | 270 | 2614.4 | 2808.7 | CER CHIP C 10uF 20% X5R 0402 6.3V | C0402 | GRM155R60J106ME44D | MURATA | 07-300085-01 |
| | | | | | | | CER CHIP C 10uF 20% X5R 0402 10V | C0402 | GRM155R61A106ME21D | MURATA | 07-010614-02 |
| 7 | 1 | R1 | 43K_1% | 180 | 10901.7 | 3568.4 | CHIP RES 43k 1% 200PPM 0201 1/20W | R0201 | RC0201FR-0743KL | YAGEO | 14-200107-01 |
| 8 | 1 | R2 | NC | | | | | | | | |
| 9 | 1 | R3 | NC | | | | | | | | |
| 10 | 1 | R4 | 0 | 225 | 13983 | 11426.5 | CHIP RES 0R 5% 200PPM 0201 1/20W | R0201 | RR0306S-000-XNH | Cyntec | 14-100000-03 |
| | | | | | | | CHIP RES 0R 5% 200PPM 0201 1/20W L/F | R0201 | RC0201JR-070RL | YAGEO | 14-100000-01 |
| 11 | 1 | SH1 | SHIELD | 270 | 8235 | 7250 | Metal Lid Shield | shield_5179M06 | TBD | TSC | 42-100053-01 |
| 12 | 1 | Y1 | OSC_32MHz | 0 | 5618.6 | 2292.9 | CRYSTAL_SMD4 2.0*1.6mm_10PPM_32MHz_10pF | xtal_2016_s4 | EXS00A-CS07977 | NDK | 39-400016-01 |
| 13 | 1 | IC1 | JN5179 | 90 | 6169.2 | 7500.1 | IC SOC Zigbee JN5179 | qfn_jn5179_44p | JN5179 | NXP | 51-037602-01 |
| 14 | 2 | C1<br>C18 | 1p2F | 180<br>180 | 12572.5<br>12562.7 | 8122.5<br>10709.2 | CER CHIP C 1.2pF ±0.25pF C0G 0402 50V | C0402 | GRM1555C1H1R2CA01D | MURATA | 07-001015-01 |
| 15 | 1 | L1 | 3n9H | 270 | 12277.4 | 6825.6 | INDUCTOR_0402__3.9nH___±0.1nH | L0402 | LQP15MN3N9B02D | MURATA | 20-103012-01 |
| 16 | 1 | L2 | 1.5nH | 180 | 11009.1 | 5547.9 | INDUCTOR_0402__1.5nH___±0.1nH | L0402 | LQP15MN1N5B02D | MURATA | 20-200039-01 |
| 17 | 1 | L4 | 2.7nH | 270 | 12989 | 9414.1 | INDUCTOR_0402__2.7nH___±0.1nH | L0402 | LQP15MN2N7B02D | MURATA | 20-102015-01 |
| 18 | 1 | CON2 | uFL | 90 | 18786.3 | 12234.4 | CONN SMD Coaxial DC-6G U.FL-R-SMT-1(80) SMD4 | smc-ufl-r-smt | U.FL-R-SMT-1(80) | HIROSE | 40-300008-01 |
| | 24 | | | | | | | | | | |

| Project: OM15061-1_ JN5179 µFl MODULE_M13 | | | | |
|---|---|---|---|---|
| Change Information | | | | |
| Date | Version | Change List | RD | |
| 18/03/2016 | V1 | Initial | BenchyTsai | |
| 29/03/2016 | V1.1 | Y1 Xtal size 1612 to 2016 | BenchyTsai | |
| 21/04/2016 | V1.2 | Add 2 32MHz XTAL PN | BenchyTsai | |
| 10/05/2016 | V1.3 | Y1 : add XTAL 2016 NDK & MURATA (alrea | S. Morel (Caen) | |
| 16/06/2016 | V1.4 | Add component XY location | BenchyTsai | |
| 05/07/2016 | V1.5 | L1:3.3nH->3.9nH | BenchyTsai | |
| 10/10/2016 | V1.6 | Change in the alternative compoents | J. Le Tousey (NXP) | |