## A. ECAD Design Information

This appendix contains information that supports the development of the PCB ECAD model for this device. It is intended to be used by PCB designers.

### A.1 Part Number Indexing

| Orderable Part Number | Number of Pins | Package Type | Package Code/POD Number |
|---|---|---|---|
| R7F7015013AFD-C#AA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015013AFD-C#BA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015013AFD-C#KA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015013AFE-C#AA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015013AFE-C#BA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015013AFE-C#KA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015014AFD-C#AA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015014AFD-C#BA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015014AFD-C#KA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015014AFE-C#AA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015014AFE-C#BA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015014AFE-C#KA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015023AFD-C#AA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015023AFD-C#BA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015023AFD-C#KA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015023AFE-C#AA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015023AFE-C#BA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015023AFE-C#KA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015024AFD-C#AA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015024AFD-C#BA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015024AFD-C#KA2 | 176 | LFQFP | PLQP0176KH-A |
| R7F7015024AFE-C#AA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015024AFE-C#BA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015024AFE-C#KA2 | 176 | LFQFP | PLQP0176KG-A |
| R7F7015303AFD-C#AA2 | 100 | LFQFP | PLQP0100KM-A |
| R7F7015303AFD-C#BA2 | 100 | LFQFP | PLQP0100KM-A |
| R7F7015303AFD-C#KA2 | 100 | LFQFP | PLQP0100KM-A |
| R7F7015303AFE-C#AA2 | 100 | LFQFP | PLQP0100KL-A |
| R7F7015303AFE-C#BA2 | 100 | LFQFP | PLQP0100KL-A |
| R7F7015303AFE-C#KA2 | 100 | LFQFP | PLQP0100KL-A |
| R7F7015313AFD-C#AA2 | 100 | LFQFP | PLQP0100KM-A |
| R7F7015313AFD-C#BA2 | 100 | LFQFP | PLQP0100KM-A |
| R7F7015313AFD-C#KA2 | 100 | LFQFP | PLQP0100KM-A |
| R7F7015313AFE-C#AA2 | 100 | LFQFP | PLQP0100KL-A |
| R7F7015313AFE-C#BA2 | 100 | LFQFP | PLQP0100KL-A |
| R7F7015313AFE-C#KA2 | 100 | LFQFP | PLQP0100KL-A |

### A.2 Symbol Pin Information

#### A.2.1 176-LFQFP

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 1 | P10_3 | I/O | TAUD0I7/TAUD0O7/RIIC0SCL/KR0I1/PWGA3O/ADCA0TRG1/TAPA0VN/CSIH1SSI#/MEMC0CLK |
| 2 | P10_4 | I/O | TAUD0I9/TAUD0O9/RLIN21RX/KR0I2/ADCA0SEL0/ADCA0TRG2/TAPA0WP/CSIG0SSI#/ETNB0RXD2 |
| 3 | P10_5 | I/O | TAUD0I11/TAUD0O11/RLIN21TX/KR0I3/ADCA0SEL1/TAPA0WN/CSIG0RYI/CSIG0RYO/ETNB0RXD3 |
| 4 | BVCC | Power | - |
| 5 | BVSS | Power | - |
| 6 | P10_15 | I/O | CSIH3RYI/CSIH3RYO/PWGA24O/RLIN22RX/TAUB0I9/TAUB0O9/MEMC0RD# |
| 7 | P11_0 | I/O | CSIH2RYI/CSIH2RYO/ADCA1TRG2/PWGA25O/RLIN22TX/TAUB0I11/TAUB0O11/MEMC0WR# |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 8 | P11_8 | I/O | CSIG1SSI#/RLIN35TX/PWGA48O/TAUB1I11/TAUB1O11/MEMC0CS0# |
| 9 | P11_9 | I/O | CSIG1SO/RLIN35RX/INTP15/PWGA49O/TAUB1I13/TAUB1O13/MEMC0CS1# |
| 10 | P11_10 | I/O | CSIG1SC/PWGA50O/TAUB1I15/TAUB1O15/MEMC0CS2#/ETNB0COL |
| 11 | P11_11 | I/O | CSIG1SI/RLIN25TX/PWGA51O/TAUB1I0/TAUB1O0/MEMC0CS3#/ETNB0RXDV |
| 12 | P11_12 | I/O | RLIN25RX/PWGA52O/TAUB1I2/TAUB1O2/MEMC0WAIT# |
| 13 | P11_13 | I/O | RLIN24RX/PWGA53O/TAUB1I4/TAUB1O4/MEMC0BEN0#/ETNB0CRS/ETNB0CRSDV/CSIG2RYI/CSIG2RYO |
| 14 | P11_14 | I/O | RLIN24TX/PWGA54O/TAUB1I6/TAUB1O6/MEMC0BEN1#/ETNB0RXERR/ETNB0RRXERR/CSIG2SSI# |
| 15 | P12_3 | I/O | RLIN27RX/ETNB0REFCLK/PWGA68O/CSIG2SI |
| 16 | P12_4 | I/O | RLIN27TX/PWGA69O/CSIG2SC/ETNB0MDIO |
| 17 | P12_5 | I/O | PWGA70O/ETNB0MDC/CSIG2SO |
| 18 | P0_0 | I/O | TAUD0I2/TAUD0O2/RLIN20RX/CAN0TX/PWGA10O/CSIH0SSI#/DPO/RESETOUT# |
| 19 | P0_1 | I/O | TAUD0I4/TAUD0O4/CAN0RX/INTP0/RLIN20TX/PWGA11O/CSIH0SI/APO |
| 20 | P0_2 | I/O | TAUD0I6/TAUD0O6/CAN1RX/INTP1/RLIN30TX/PWGA12O/CSIH0SC/DPO |
| 21 | P0_3 | I/O | TAUD0I8/TAUD0O8/RLIN30RX/INTP10/CAN1TX/DPIN1/PWGA13O/CSIH0SO |
| 22 | EVCC | Power | - |
| 23 | P0_4 | I/O | RLIN31RX/INTP11/CAN2TX/PWGA10O/CSIH1SI/SELDP0/DPIN8 |
| 24 | P0_5 | I/O | CAN2RX/INTP2/RLIN31TX/DPIN9/SELDP1/CSIH1SO |
| 25 | P0_6 | I/O | INTP2/DPIN10/SELDP2/CSIH1SC/PWGA35O |
| 26 | P0_11 | I/O | RIIC0SDA/DPIN12/CSIH1CSS2/TAUB0I8/TAUB0O8/RLIN26RX/PWGA34O |
| 27 | P0_12 | I/O | RIIC0SCL/DPIN13/PWGA45O/TAUB0I10/TAUB0O10/CSIG0SI/RLIN26TX |
| 28 | P0_13 | I/O | RLIN32RX/INTP12/PWGA46O/TAUB0I12/TAUB0O12/CSIG0SO/CAN5RX/INTP5 |
| 29 | P0_14 | I/O | RLIN32TX/PWGA47O/TAUB0I14/TAUB0O14/CSIG0SC/CAN5TX |
| 30 | P1_0 | I/O | RLIN33RX/INTP13 |
| 31 | P1_1 | I/O | RLIN33TX |
| 32 | P1_2 | I/O | CAN3RX/INTP3 |
| 33 | P1_3 | I/O | CAN3TX/DPIN23 |
| 34 | P1_12 | I/O | CAN4RX/INTP4 |
| 35 | P1_13 | I/O | CAN4TX |
| 36 | P2_6 | I/O | ADCA0SEL2 |
| 37 | EVSS | Power | - |
| 38 | P8_2 | I/O | TAUJ0I0/TAUJ0O0/DPIN2/CSIH0CSS0/INTP6/PWGA22O/ADCA0I4S |
| 39 | P8_10 | I/O | CSIH3CSS3/DPIN14/PWGA42O/ADCA0I17S |
| 40 | P8_11 | I/O | TAUJ1I2/TAUJ1O2/DPIN15/PWGA43O/CSIH1CSS4/ADCA0I18S |
| 41 | P8_12 | I/O | TAUJ1I3/TAUJ1O3/DPIN16/PWGA44O/CSIH1CSS5/ADCA0I19S |
| 42 | JP0_5 | I/O | NMI/RTCA0OUT/TAUJ0I3/TAUJ0O3/DCURDY#/LPDCLKOUT |
| 43 | JP0_4 | I/O | DCUTRST# |
| 44 | JP0_3 | I/O | INTP3/CSCXFOUT/TAUJ0I2/TAUJ0O2/DCUTMS |
| 45 | JP0_2 | I/O | INTP2/TAUJ0I1/TAUJ0O1/DCUTCK/LPDCLK |
| 46 | JP0_1 | I/O | INTP1/TAUJ0I0/TAUJ0O0/DCUTDO/LPDO |
| 47 | JP0_0 | I/O | INTP0/DCUTDI/LPDI/LPDIO |
| 48 | P2_1 | I/O | RLIN27TX/CAN6TX |
| 49 | P2_0 | I/O | RLIN27RX/INTP6/CAN6RX |
| 50 | P1_11 | I/O | ADCA1TRG2/RLIN24TX/DPIN22 |
| 51 | P1_10 | I/O | RLIN24RX/DPIN21 |
| 52 | P1_9 | I/O | RLIN34TX/DPIN20 |
| 53 | P1_8 | I/O | RLIN34RX/INTP14 |
| 54 | \RESET | Input | - |
| 55 | EVCC | Power | - |
| 56 | XT1 | Input | - |
| 57 | XT2 | Input | IP0_0 |
| 58 | AWOVSS | Power | - |
| 59 | AWOVCL | Power | - |
| 60 | REGVCC | Power | - |
| 61 | X2 | Input | - |
| 62 | X1 | Input | - |
| 63 | FLMD0 | Input | - |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 64 | P2_3 | I/O | RLIN28TX |
| 65 | P2_2 | I/O | RLIN28RX |
| 66 | JP0_6 | I/O | EVTO# |
| 67 | P0_10 | I/O | INTP3/CSIH1CSS1/DPIN11/RLIN22TX/TAUB0I6/TAUB0O6/CAN4TX |
| 68 | P0_9 | I/O | INTP12/CSIH1CSS0/DPIN7/RLIN22RX/TAUB0I4/TAUB0O4/CAN4RX/INTP4 |
| 69 | P0_8 | I/O | RLIN21TX/DPIN6/CSIH0CSS6/CSIH1SSI#/TAUB0I2/TAUB0O2/CAN3TX |
| 70 | P0_7 | I/O | RLIN21RX/DPIN5/CSCXFOUT/CSIH1RYI/CSIH1RYO/TAUB0I0/TAUB0O0/CAN3RX/INTP3 |
| 71 | EVSS | Power | - |
| 72 | P1_7 | I/O | ADCA1TRG1/RLIN25TX/DPIN19 |
| 73 | P1_6 | I/O | RLIN25RX/DPIN18 |
| 74 | P1_5 | I/O | ADCA1TRG0/RLIN35TX/DPIN17 |
| 75 | P1_4 | I/O | RLIN35RX/INTP15 |
| 76 | P2_4 | I/O | RLIN29RX/ADCA0SEL0 |
| 77 | P2_5 | I/O | RLIN29TX/ADCA0SEL1 |
| 78 | P1_14 | I/O | RLIN23RX |
| 79 | P1_15 | I/O | RLIN23TX |
| 80 | P8_0 | I/O | TAUJ0I0/TAUJ0O0/DPIN2/PWGA14O/INTP4/CSIH0CSS0/ADCA0I0S |
| 81 | P8_1 | I/O | TAPA0ESO/TAUJ0O1/DPIN0/PWGA15O/INTP5/CSIH1CSS3/ADCA0I1S |
| 82 | P8_3 | I/O | TAUJ0I1/TAUJ0O1/DPIN3/CSIH0CSS1/INTP7/PWGA23O/ADCA0I5S |
| 83 | P8_4 | I/O | TAUJ0I2/TAUJ0O2/DPIN4/CSIH0CSS2/INTP8/PWGA36O/ADCA0I6S |
| 84 | P8_5 | I/O | TAUJ0I3/TAUJ0O3/CSIH0CSS3/INTP9/PWGA37O/ADCA0I7S |
| 85 | P8_6 | I/O | NMI/CSIH0CSS4/PWGA38O/RTCA0OUT/ADCA0I8S |
| 86 | P8_7 | I/O | CSIH3CSS0/PWGA39O/ADCA0I14S |
| 87 | P8_8 | I/O | CSIH3CSS1/PWGA40O/ADCA0I15S |
| 88 | P8_9 | I/O | CSIH3CSS2/PWGA41O/ADCA0I16S |
| 89 | A0VSS | Power | - |
| 90 | A0VREF | Power | - |
| 91 | AP0_15 | I/O | ADCA0I15 |
| 92 | AP0_14 | I/O | ADCA0I14 |
| 93 | AP0_13 | I/O | ADCA0I13 |
| 94 | AP0_12 | I/O | ADCA0I12 |
| 95 | AP0_11 | I/O | ADCA0I11 |
| 96 | AP0_10 | I/O | ADCA0I10 |
| 97 | AP0_9 | I/O | ADCA0I9 |
| 98 | AP0_8 | I/O | ADCA0I8 |
| 99 | AP0_7 | I/O | ADCA0I7 |
| 100 | AP0_6 | I/O | ADCA0I6 |
| 101 | AP0_5 | I/O | ADCA0I5 |
| 102 | AP0_4 | I/O | ADCA0I4 |
| 103 | AP0_3 | I/O | ADCA0I3 |
| 104 | AP0_2 | I/O | ADCA0I2 |
| 105 | AP0_1 | I/O | ADCA0I1 |
| 106 | AP0_0 | I/O | ADCA0I0 |
| 107 | EVSS | Power | - |
| 108 | P9_0 | I/O | NMI/PWGA8O/TAUD0I0/TAUD0O0/ADCA0TRG0/CSIH2CSS0/KR0I4/ADCA0I2S |
| 109 | P9_1 | I/O | INTP11/PWGA9O/TAUD0I2/TAUD0O2/KR0I5/CSIH2CSS1/ADCA0I3S |
| 110 | P9_2 | I/O | KR0I6/PWGA20O/TAPA0ESO/CSIH2CSS2/ADCA0I9S |
| 111 | P9_3 | I/O | KR0I7/PWGA21O/CSIH2CSS3/TAUJ1I1/TAUJ1O1/ADCA0I10S |
| 112 | P9_4 | I/O | CSIH0CSS5/PWGA33O/TAUJ1I0/TAUJ1O0/ADCA0I11S |
| 113 | ISOVCL | Power | - |
| 114 | ISOVSS | Power | - |
| 115 | P20_3 | I/O | CAN4TX/PWGA67O/RLIN29TX/CSIG3RYI/CSIG3RYO |
| 116 | P20_2 | I/O | CAN4RX/INTP4/PWGA66O/RLIN29RX/CSIG3SC |
| 117 | P20_1 | I/O | RLIN26TX/PWGA65O/CAN6TX/CSIG3SO |
| 118 | P20_0 | I/O | RLIN26RX/PWGA64O/INTP6/CAN6RX/CSIG3SI |
| 119 | P20_5 | I/O | RLIN23TX/PWGA60O |
| 120 | P20_4 | I/O | RLIN23RX/PWGA59O/CSIG3SSI# |
| 121 | EVCC | Power | - |
| 122 | AP1_11 | I/O | ADCA1I11 |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 123 | AP1_10 | I/O | ADCA1I10 |
| 124 | AP1_9 | I/O | ADCA1I9 |
| 125 | AP1_8 | I/O | ADCA1I8 |
| 126 | AP1_7 | I/O | ADCA1I7 |
| 127 | AP1_6 | I/O | ADCA1I6 |
| 128 | AP1_5 | I/O | ADCA1I5 |
| 129 | AP1_4 | I/O | ADCA1I4 |
| 130 | AP1_3 | I/O | ADCA1I3 |
| 131 | AP1_2 | I/O | ADCA1I2 |
| 132 | AP1_1 | I/O | ADCA1I1 |
| 133 | AP1_0 | I/O | ADCA1I0 |
| 134 | AP1_15 | I/O | ADCA1I15 |
| 135 | AP1_14 | I/O | ADCA1I14 |
| 136 | AP1_13 | I/O | ADCA1I13 |
| 137 | AP1_12 | I/O | ADCA1I12 |
| 138 | A1VREF | Power | - |
| 139 | A1VSS | Power | - |
| 140 | BVCC | Power | - |
| 141 | ISOVCL | Power | - |
| 142 | ISOVSS | Power | - |
| 143 | P18_0 | I/O | CSIG1RYI/CSIG1RYO/ETNB0LINK/PWGA61O/ADCA1I0S |
| 144 | P18_1 | I/O | PWGA62O/ETNB0TXD0/ETNB0RTXD0/ADCA1I1S |
| 145 | P18_2 | I/O | PWGA63O/ETNB0TXD1/ETNB0RTXD1/ADCA1I2S |
| 146 | P18_3 | I/O | PWGA71O/ETNB0TXD2/ADCA1I3S |
| 147 | P18_4 | I/O | CSIH1CSS4/ETNB0TXD3/ADCA1I4S |
| 148 | P18_5 | I/O | CSIH1CSS5/ETNB0TXEN/ETNB0RTXEN/ADCA1I5S |
| 149 | P18_6 | I/O | ETNB0TXERR/ADCA1I6S |
| 150 | P18_7 | I/O | ETNB0TXCLK/ADCA1I7S |
| 151 | BVSS | Power | - |
| 152 | P10_6 | I/O | TAUD0I13/TAUD0O13/CSIG0SO/ENCA0TIN0/ADCA0SEL2/CAN1RX/INTP1/MEMC0AD0 |
| 153 | P10_7 | I/O | TAUD0I15/TAUD0O15/CSIG0SC/ENCA0TIN1/PWGA4O/CAN1TX/MEMC0AD1 |
| 154 | FLMD1 | Input | P10_8/TAUD0I10/TAUD0O10/CSIG0SI/FLXA0TXDB/ENCA0EC/PWGA5O/MEMC0AD2 |
| 155 | P10_9 | I/O | TAUD0I12/TAUD0O12/RLIN30RX/INTP10/ENCA0E0/PWGA6O/CSIH0RYI/CSIH0RYO/MEMC0AD3/FLXA0RXDB |
| 156 | P10_10 | I/O | TAUD0I14/TAUD0O14/RLIN30TX/ENCA0E1/PWGA7O/CSIH0CSS1/MEMC0AD4 |
| 157 | P10_11 | I/O | PWGA16O/RLIN31RX/INTP11/FLXA0TXENA/CSIH1CSS0/TAUB0I1/TAUB0O1/MEMC0AD5 |
| 158 | P10_12 | I/O | PWGA17O/FLXA0STPWT/RLIN31TX/CSIH1CSS1/TAUB0I3/TAUB0O3/MEMC0AD6 |
| 159 | P10_13 | I/O | CSIH0SSI#/PWGA18O/RLIN32RX/INTP12/FLXA0TXENB/TAUB0I5/TAUB0O5/MEMC0AD7 |
| 160 | P10_14 | I/O | ADCA1TRG0/PWGA19O/FLXA0RXDA/RLIN32TX/CSIH3SSI#/TAUB0I7/TAUB0O7/MEMC0AD8 |
| 161 | P11_1 | I/O | CSIH2SSI#/FLXA0TXDA/RLIN20RX/CSIH0CSS7/PWGA26O/TAUB0I13/TAUB0O13/MEMC0AD9 |
| 162 | P11_2 | I/O | CSIH2SO/RLIN20TX/PWGA27O/TAUB0I15/TAUB0O15/MEMC0AD10 |
| 163 | P11_3 | I/O | CSIH2SC/CAN3RX/INTP3/PWGA28O/TAUB1I1/TAUB1O1/MEMC0AD11 |
| 164 | P11_4 | I/O | CSIH2SI/CAN3TX/PWGA29O/TAUB1I3/TAUB1O3/MEMC0AD12 |
| 165 | P11_5 | I/O | CAN5RX/INTP5/RLIN33TX/PWGA30O/CSIH3SI/TAUB1I5/TAUB1O5/MEMC0AD13 |
| 166 | P11_6 | I/O | RLIN33RX/INTP13/CAN5TX/ADCA1TRG1/PWGA31O/CSIH3SO/TAUB1I7/TAUB1O7/MEMC0AD14 |
| 167 | P11_7 | I/O | INTP5/PWGA32O/CSIH3SC/TAUB1I9/TAUB1O9/MEMC0AD15 |
| 168 | P11_15 | I/O | CAN2RX/INTP2/CSIH2CSS4/PWGA55O/TAUB1I8/TAUB1O8/MEMC0ASTB# |
| 169 | P12_0 | I/O | CAN2TX/PWGA56O/TAUB1I10/TAUB1O10/MEMC0A16 |
| 170 | P12_1 | I/O | RLIN34RX/INTP14/CSIH2CSS5/PWGA57O/TAUB1I12/TAUB1O12/MEMC0A17 |
| 171 | P12_2 | I/O | RLIN34TX/PWGA58O/TAUB1I14/TAUB1O14/MEMC0A18 |
| 172 | BVCC | Power | - |
| 173 | BVSS | Power | - |
| 174 | P10_0 | I/O | TAUD0I1/TAUD0O1/CAN0RX/INTP0/CSCXFOUT/PWGA0O/TAPA0UP/CSIH1SI/MEMC0A19/ETNB0RXCLK |
| 175 | P10_1 | I/O | TAUD0I3/TAUD0O3/CAN0TX/PWGA1O/TAPA0UN/CSIH1SC/ETNB0RXD0/ETNB0RRXD0/MODE0 |
| 176 | P10_2 | I/O | TAUD0I5/TAUD0O5/RIIC0SDA/KR0I0/PWGA2O/ADCA0TRG0/TAPA0VP/CSIH1SO/ETNB0RXD1/ETNB0RRXD1/MODE1 |

## A.2.2 176-LFQFP

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 1 | P10_3 | I/O | TAUD0I7/TAUD0O7/RIIC0SCL/KR0I1/PWGA3O/ADCA0TRG1/TAPA0VN/CSIH1SSI#/MEMC0CLK |
| 2 | P10_4 | I/O | TAUD0I9/TAUD0O9/RLIN21RX/KR0I2/ADCA0SEL0/ADCA0TRG2/TAPA0WP/CSIG0SSI#/ETNB0RXD2 |
| 3 | P10_5 | I/O | TAUD0I11/TAUD0O11/RLIN21TX/KR0I3/ADCA0SEL1/TAPA0WN/CSIG0RYI/CSIG0RYO/ETNB0RXD3 |
| 4 | BVCC | Power | - |
| 5 | BVSS | Power | - |
| 6 | P10_15 | I/O | CSIH3RYI/CSIH3RYO/PWGA24O/RLIN22RX/TAUB0I9/TAUB0O9/MEMC0RD# |
| 7 | P11_0 | I/O | CSIH2RYI/CSIH2RYO/ADCA1TRG2/PWGA25O/RLIN22TX/TAUB0I11/TAUB0O11/MEMC0WR# |
| 8 | P11_8 | I/O | CSIG1SSI#/RLIN35TX/PWGA48O/TAUB1I11/TAUB1O11/MEMC0CS0# |
| 9 | P11_9 | I/O | CSIG1SO/RLIN35RX/INTP15/PWGA49O/TAUB1I13/TAUB1O13/MEMC0CS1# |
| 10 | P11_10 | I/O | CSIG1SC/PWGA50O/TAUB1I15/TAUB1O15/MEMC0CS2#/ETNB0COL |
| 11 | P11_11 | I/O | CSIG1SI/RLIN25TX/PWGA51O/TAUB1I0/TAUB1O0/MEMC0CS3#/ETNB0RXDV |
| 12 | P11_12 | I/O | RLIN25RX/PWGA52O/TAUB1I2/TAUB1O2/MEMC0WAIT# |
| 13 | P11_13 | I/O | RLIN24RX/PWGA53O/TAUB1I4/TAUB1O4/MEMC0BEN0#/ETNB0CRS/ETNB0CRSDV/CSIG2RYI/CSIG2RYO |
| 14 | P11_14 | I/O | RLIN24TX/PWGA54O/TAUB1I6/TAUB1O6/MEMC0BEN1#/ETNB0RXERR/ETNB0RRXERR/CSIG2SSI# |
| 15 | P12_3 | I/O | RLIN27RX/ETNB0REFCLK/PWGA68O/CSIG2SI |
| 16 | P12_4 | I/O | RLIN27TX/PWGA69O/CSIG2SC/ETNB0MDIO |
| 17 | P12_5 | I/O | PWGA70O/ETNB0MDC/CSIG2SO |
| 18 | P0_0 | I/O | TAUD0I2/TAUD0O2/RLIN20RX/CAN0TX/PWGA10O/CSIH0SSI#/DPO/RESETOUT# |
| 19 | P0_1 | I/O | TAUD0I4/TAUD0O4/CAN0RX/INTP0/RLIN20TX/PWGA11O/CSIH0SI/APO |
| 20 | P0_2 | I/O | TAUD0I6/TAUD0O6/CAN1RX/INTP1/RLIN30TX/PWGA12O/CSIH0SC/DPO |
| 21 | P0_3 | I/O | TAUD0I8/TAUD0O8/RLIN30RX/INTP10/CAN1TX/DPIN1/PWGA13O/CSIH0SO |
| 22 | EVCC | Power | - |
| 23 | P0_4 | I/O | RLIN31RX/INTP11/CAN2TX/PWGA14O/CSIH1SI/SELDP0/DPIN8 |
| 24 | P0_5 | I/O | CAN2RX/INTP2/RLIN31TX/DPIN9/SELDP1/CSIH1SO |
| 25 | P0_6 | I/O | INTP2/DPIN10/SELDP2/CSIH1SC/PWGA35O |
| 26 | P0_11 | I/O | RIIC0SDA/DPIN12/CSIH1CSS2/TAUB0I8/TAUB0O8/RLIN26RX/PWGA34O |
| 27 | P0_12 | I/O | RIIC0SCL/DPIN13/PWGA45O/TAUB0I10/TAUB0O10/CSIG0SI/RLIN26TX |
| 28 | P0_13 | I/O | RLIN32RX/INTP12/PWGA46O/TAUB0I12/TAUB0O12/CSIG0SO/CAN5RX/INTP5 |
| 29 | P0_14 | I/O | RLIN32TX/PWGA47O/TAUB0I14/TAUB0O14/CSIG0SC/CAN5TX |
| 30 | P1_0 | I/O | RLIN33RX/INTP13 |
| 31 | P1_1 | I/O | RLIN33TX |
| 32 | P1_2 | I/O | CAN3RX/INTP3 |
| 33 | P1_3 | I/O | CAN3TX/DPIN23 |
| 34 | P1_12 | I/O | CAN4RX/INTP4 |
| 35 | P1_13 | I/O | CAN4TX |
| 36 | P2_6 | I/O | ADCA0SEL2 |
| 37 | EVSS | Power | - |
| 38 | P8_2 | I/O | TAUJ0I0/TAUJ0O0/DPIN2/CSIH0CSS0/INTP6/PWGA22O/ADCA0I4S |
| 39 | P8_10 | I/O | CSIH3CSS3/DPIN14/PWGA42O/ADCA0I17S |
| 40 | P8_11 | I/O | TAUJ1I2/TAUJ1O2/DPIN15/PWGA43O/CSIH1CSS4/ADCA0I18S |
| 41 | P8_12 | I/O | TAUJ1I3/TAUJ1O3/DPIN16/PWGA44O/CSIH1CSS5/ADCA0I19S |
| 42 | JP0_5 | I/O | NMI/RTCA0OUT/TAUJ0I3/TAUJ0O3/DCURDY#/LPDCLKOUT |
| 43 | JP0_4 | I/O | DCUTRST# |
| 44 | JP0_3 | I/O | INTP3/CSCXFOUT/TAUJ0I2/TAUJ0O2/DCUTMS |
| 45 | JP0_2 | I/O | INTP2/TAUJ0I1/TAUJ0O1/DCUTCK/LPDCLK |
| 46 | JP0_1 | I/O | INTP1/TAUJ0I0/TAUJ0O0/DCUTDO/LPDO |
| 47 | JP0_0 | I/O | INTP0/DCUTDI/LPDI/LPDIO |
| 48 | P2_1 | I/O | RLIN27TX/CAN6TX |
| 49 | P2_0 | I/O | RLIN27RX/INTP6/CAN6RX |
| 50 | P1_11 | I/O | ADCA1TRG2/RLIN24TX/DPIN22 |
| 51 | P1_10 | I/O | RLIN24RX/DPIN21 |
| 52 | P1_9 | I/O | RLIN34TX/DPIN20 |
| 53 | P1_8 | I/O | RLIN34RX/INTP14 |
| 54 | \RESET | Input | - |
| 55 | EVCC | Power | - |
| 56 | XT1 | Input | - |
| 57 | XT2 | Input | IP0_0 |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 58 | AWOVSS | Power | - |
| 59 | AWOVCL | Power | - |
| 60 | REGVCC | Power | - |
| 61 | X2 | Input | - |
| 62 | X1 | Input | - |
| 63 | FLMD0 | Input | - |
| 64 | P2_3 | I/O | RLIN28TX |
| 65 | P2_2 | I/O | RLIN28RX |
| 66 | JP0_6 | I/O | - |
| 67 | P0_10 | I/O | INTP3/CSIH1CSS1/DPIN11/RLIN22TX/TAUB0I6/TAUB0O6/CAN4TX |
| 68 | P0_9 | I/O | INTP12/CSIH1CSS0/DPIN7/RLIN22RX/TAUB0I4/TAUB0O4/CAN4RX/INTP4 |
| 69 | P0_8 | I/O | RLIN21TX/DPIN6/CSIH0CSS6/CSIH1SSI#/TAUB0I2/TAUB0O2/CAN3TX |
| 70 | P0_7 | I/O | RLIN21RX/DPIN5/CSCXFOUT/CSIH1RYI/CSIH1RYO/TAUB0I0/TAUB0O0/CAN3RX/INTP3 |
| 71 | EVSS | Power | - |
| 72 | P1_7 | I/O | ADCA1TRG1/RLIN25TX/DPIN19 |
| 73 | P1_6 | I/O | RLIN25RX/DPIN18 |
| 74 | P1_5 | I/O | ADCA1TRG0/RLIN35TX/DPIN17 |
| 75 | P1_4 | I/O | RLIN35RX/INTP15 |
| 76 | P2_4 | I/O | RLIN29RX/ADCA0SEL0 |
| 77 | P2_5 | I/O | RLIN29TX/ADCA0SEL1 |
| 78 | P1_14 | I/O | RLIN23RX |
| 79 | P1_15 | I/O | RLIN23TX |
| 80 | P8_0 | I/O | TAUJ0I0/TAUJ0O0/DPIN2/PWGA14O/INTP4/CSIH0CSS0/ADCA0I0S |
| 81 | P8_1 | I/O | TAPA0ESO/TAUJ0O1/DPIN0/PWGA15O/INTP5/CSIH1CSS3/ADCA0I1S |
| 82 | P8_3 | I/O | TAUJ0I1/TAUJ0O1/DPIN3/CSIH0CSS1/INTP7/PWGA23O/ADCA0I5S |
| 83 | P8_4 | I/O | TAUJ0I2/TAUJ0O2/DPIN4/CSIH0CSS2/INTP8/PWGA36O/ADCA0I6S |
| 84 | P8_5 | I/O | TAUJ0I3/TAUJ0O3/CSIH0CSS3/INTP9/PWGA37O/ADCA0I7S |
| 85 | P8_6 | I/O | NMI/CSIH0CSS4/PWGA38O/RTCA0OUT/ADCA0I8S |
| 86 | P8_7 | I/O | CSIH3CSS0/PWGA39O/ADCA0I14S |
| 87 | P8_8 | I/O | CSIH3CSS1/PWGA40O/ADCA0I15S |
| 88 | P8_9 | I/O | CSIH3CSS2/PWGA41O/ADCA0I16S |
| 89 | A0VSS | Power | - |
| 90 | A0VREF | Power | - |
| 91 | AP0_15 | I/O | ADCA0I15 |
| 92 | AP0_14 | I/O | ADCA0I14 |
| 93 | AP0_13 | I/O | ADCA0I13 |
| 94 | AP0_12 | I/O | ADCA0I12 |
| 95 | AP0_11 | I/O | ADCA0I11 |
| 96 | AP0_10 | I/O | ADCA0I10 |
| 97 | AP0_9 | I/O | ADCA0I9 |
| 98 | AP0_8 | I/O | ADCA0I8 |
| 99 | AP0_7 | I/O | ADCA0I7 |
| 100 | AP0_6 | I/O | ADCA0I6 |
| 101 | AP0_5 | I/O | ADCA0I5 |
| 102 | AP0_4 | I/O | ADCA0I4 |
| 103 | AP0_3 | I/O | ADCA0I3 |
| 104 | AP0_2 | I/O | ADCA0I2 |
| 105 | AP0_1 | I/O | ADCA0I1 |
| 106 | AP0_0 | I/O | ADCA0I0 |
| 107 | EVSS | Power | - |
| 108 | P9_0 | I/O | NMI/PWGA8O/TAUD0I0/TAUD0O0/ADCA0TRG0/CSIH2CSS0/KR0I4/ADCA0I2S |
| 109 | P9_1 | I/O | INTP11/PWGA9O/TAUD0I2/TAUD0O2/KR0I5/CSIH2CSS1/ADCA0I3S |
| 110 | P9_2 | I/O | KR0I6/PWGA20O/TAPA0ESO/CSIH2CSS2/ADCA0I9S |
| 111 | P9_3 | I/O | KR0I7/PWGA21O/CSIH2CSS3/TAUJ1I1/TAUJ1O1/ADCA0I10S |
| 112 | P9_4 | I/O | CSIH0CSS5/PWGA33O/TAUJ1I0/TAUJ1O0/ADCA0I11S |
| 113 | ISOVCL | Power | - |
| 114 | ISOVSS | Power | - |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 115 | P20_3 | I/O | CAN4TX/PWGA67O/RLIN29TX/CSIG3RYI/CSIG3RYO |
| 116 | P20_2 | I/O | CAN4RX/INTP4/PWGA66O/RLIN29RX/CSIG3SC |
| 117 | P20_1 | I/O | RLIN26TX/PWGA65O/CAN6TX/CSIG3SO |
| 118 | P20_0 | I/O | RLIN26RX/PWGA64O/INTP6/CAN6RX/CSIG3SI |
| 119 | P20_5 | I/O | RLIN23TX/PWGA60O |
| 120 | P20_4 | I/O | RLIN23RX/PWGA59O/CSIG3SSI# |
| 121 | EVCC | Power | - |
| 122 | AP1_11 | I/O | ADCA1I11 |
| 123 | AP1_10 | I/O | ADCA1I10 |
| 124 | AP1_9 | I/O | ADCA1I9 |
| 125 | AP1_8 | I/O | ADCA1I8 |
| 126 | AP1_7 | I/O | ADCA1I7 |
| 127 | AP1_6 | I/O | ADCA1I6 |
| 128 | AP1_5 | I/O | ADCA1I5 |
| 129 | AP1_4 | I/O | ADCA1I4 |
| 130 | AP1_3 | I/O | ADCA1I3 |
| 131 | AP1_2 | I/O | ADCA1I2 |
| 132 | AP1_1 | I/O | ADCA1I1 |
| 133 | AP1_0 | I/O | ADCA1I0 |
| 134 | AP1_15 | I/O | ADCA1I15 |
| 135 | AP1_14 | I/O | ADCA1I14 |
| 136 | AP1_13 | I/O | ADCA1I13 |
| 137 | AP1_12 | I/O | ADCA1I12 |
| 138 | A1VREF | Power | - |
| 139 | A1VSS | Power | - |
| 140 | BVCC | Power | - |
| 141 | ISOVCL | Power | - |
| 142 | ISOVSS | Power | - |
| 143 | P18_0 | I/O | CSIG1RYI/CSIG1RYO/ETNB0LINK/PWGA61O/ADCA1I0S |
| 144 | P18_1 | I/O | PWGA62O/ETNB0TXD0/ETNB0RTXD0/ADCA1I1S |
| 145 | P18_2 | I/O | PWGA63O/ETNB0TXD1/ETNB0RTXD1/ADCA1I2S |
| 146 | P18_3 | I/O | PWGA71O/ETNB0TXD2/ADCA1I3S |
| 147 | P18_4 | I/O | CSIH1CSS4/ETNB0TXD3/ADCA1I4S |
| 148 | P18_5 | I/O | CSIH1CSS5/ETNB0TXEN/ETNB0RTXEN/ADCA1I5S |
| 149 | P18_6 | I/O | ETNB0TXERR/ADCA1I6S |
| 150 | P18_7 | I/O | ETNB0TXCLK/ADCA1I7S |
| 151 | BVSS | Power | - |
| 152 | P10_6 | I/O | TAUD0I13/TAUD0O13/CSIG0SO/ENCA0TIN0/ADCA0SEL2/CAN1RX/INTP1/MEMC0AD0 |
| 153 | P10_7 | I/O | TAUD0I15/TAUD0O15/CSIG0SC/ENCA0TIN1/PWGA4O/CAN1TX/MEMC0AD1 |
| 154 | FLMD1 | Input | P10_8/TAUD0I10/TAUD0O10/CSIG0SI/FLXA0TXDB/ENCA0EC/PWGA5O/MEMC0AD2 |
| 155 | P10_9 | I/O | TAUD0I12/TAUD0O12/RLIN30RX/INTP10/ENCA0E0/PWGA6O/CSIH0RYI/CSIH0RYO/MEMC0AD3/FLXA0RXDB |
| 156 | P10_10 | I/O | TAUD0I14/TAUD0O14/RLIN30TX/ENCA0E1/PWGA7O/CSIH0CSS1/MEMC0AD4 |
| 157 | P10_11 | I/O | PWGA16O/RLIN31RX/INTP11/FLXA0TXENA/CSIH1CSS0/TAUB0I1/TAUB0O1/MEMC0AD5 |
| 158 | P10_12 | I/O | PWGA17O/FLXA0STPWT/RLIN31TX/CSIH1CSS1/TAUB0I3/TAUB0O3/MEMC0AD6 |
| 159 | P10_13 | I/O | CSIH0SSI#/PWGA18O/RLIN32RX/INTP12/FLXA0TXENB/TAUB0I5/TAUB0O5/MEMC0AD7 |
| 160 | P10_14 | I/O | ADCA1TRG0/PWGA19O/FLXA0RXDA/RLIN32TX/CSIH3SSI#/TAUB0I7/TAUB0O7/MEMC0AD8 |
| 161 | P11_1 | I/O | CSIH2SSI#/FLXA0TXDA/RLIN20RX/CSIH0CSS7/PWGA26O/TAUB0I13/TAUB0O13/MEMC0AD9 |
| 162 | P11_2 | I/O | CSIH2SO/RLIN20TX/PWGA27O/TAUB0I15/TAUB0O15/MEMC0AD10 |
| 163 | P11_3 | I/O | CSIH2SC/CAN3RX/INTP3/PWGA28O/TAUB1I1/TAUB1O1/MEMC0AD11 |
| 164 | P11_4 | I/O | CSIH2SI/CAN3TX/PWGA29O/TAUB1I3/TAUB1O3/MEMC0AD12 |
| 165 | P11_5 | I/O | CAN5RX/INTP5/RLIN33TX/PWGA30O/CSIH3SI/TAUB1I5/TAUB1O5/MEMC0AD13 |
| 166 | P11_6 | I/O | RLIN33RX/INTP13/CAN5TX/ADCA1TRG1/PWGA31O/CSIH3SO/TAUB1I7/TAUB1O7/MEMC0AD14 |
| 167 | P11_7 | I/O | INTP5/PWGA32O/CSIH3SC/TAUB1I9/TAUB1O9/MEMC0AD15 |
| 168 | P11_15 | I/O | CAN2RX/INTP2/CSIH2CSS4/PWGA55O/TAUB1I8/TAUB1O8/MEMC0ASTB# |
| 169 | P12_0 | I/O | CAN2TX/PWGA56O/TAUB1I10/TAUB1O10/MEMC0A16 |
| 170 | P12_1 | I/O | RLIN34RX/INTP14/CSIH2CSS5/PWGA57O/TAUB1I12/TAUB1O12/MEMC0A17 |
| 171 | P12_2 | I/O | RLIN34TX/PWGA58O/TAUB1I14/TAUB1O14/MEMC0A18 |
| 172 | BVCC | Power | - |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 173 | BVSS | Power | - |
| 174 | P10_0 | I/O | TAUD0I1/TAUD0O1/CAN0RX/INTP0/CSCXFOUT/PWGA0O/TAPA0UP/CSIH1SI/MEMC0A19/ETNB0RXCLK |
| 175 | P10_1 | I/O | TAUD0I3/TAUD0O3/CAN0TX/PWGA1O/TAPA0UN/CSIH1SC/ETNB0RXD0/ETNB0RRXD0/MODE0 |
| 176 | P10_2 | I/O | TAUD0I5/TAUD0O5/RIIC0SDA/KR0I0/PWGA2O/ADCA0TRG0/TAPA0VP/CSIH1SO/ETNB0RXD1/ETNB0RRXD1/MODE1 |

## A.2.3 100-LFQFP

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 1 | P10_3 | I/O | TAUD0I7/TAUD0O7/RIIC0SCL/KR0I1/PWGA3O/ADCA0TRG1/CSIH1SSI# |
| 2 | P10_4 | I/O | TAUD0I9/TAUD0O9/RLIN21RX/KR0I2/ADCA0TRG2/CSIG0SSI#/CAN6RX/INTP6 |
| 3 | P10_5 | I/O | TAUD0I11/TAUD0O11/RLIN21TX/KR0I3/CSIG0RYI/CSIG0RYO/CAN6TX |
| 4 | P10_15 | I/O | RLIN22RX/TAUB0I9/TAUB0O9 |
| 5 | P11_0 | I/O | CSIH2RYI/CSIH2RYO/RLIN22TX/TAUB0I11/TAUB0O11 |
| 6 | P0_0 | I/O | TAUD0I2/TAUD0O2/RLIN20RX/CAN0TX/PWGA10O/CSIH0SSI#/DPO/RESETOUT# |
| 7 | P0_1 | I/O | TAUD0I4/TAUD0O4/CAN0RX/INTP0/RLIN20TX/PWGA11O/CSIH0SI/APO |
| 8 | P0_2 | I/O | TAUD0I6/TAUD0O6/CAN1RX/INTP1/RLIN30TX/PWGA12O/CSIH0SC/DPO |
| 9 | P0_3 | I/O | TAUD0I8/TAUD0O8/RLIN30RX/INTP10/CAN1TX/DPIN1/PWGA13O/CSIH0SO |
| 10 | EVCC | Power | - |
| 11 | P0_4 | I/O | RLIN31RX/INTP11/CAN2TX/PWGA10O/CSIH1SI/SELDP0/DPIN8 |
| 12 | P0_5 | I/O | CAN2RX/INTP2/RLIN31TX/DPIN9/SELDP1/CSIH1SO |
| 13 | P0_6 | I/O | INTP2/DPIN10/SELDP2/CSIH1SC |
| 14 | P0_11 | I/O | RIIC0SDA/DPIN12/CSIH1CSS2/TAUB0I8/TAUB0O8 |
| 15 | P0_12 | I/O | RIIC0SCL/DPIN13/TAUB0I10/TAUB0O10/CSIG0SI |
| 16 | P0_13 | I/O | INTP12/TAUB0I12/TAUB0O12/CSIG0SO/CAN5RX/INTP5 |
| 17 | P0_14 | I/O | TAUB0I14/TAUB0O14/CSIG0SC/CAN5TX |
| 18 | EVSS | Power | - |
| 19 | P8_2 | I/O | TAUJ0I0/TAUJ0O0/DPIN2/CSIH0CSS0/INTP6 |
| 20 | P8_10 | I/O | DPIN14 |
| 21 | P8_11 | I/O | TAUJ1I2/TAUJ1O2/DPIN15 |
| 22 | P8_12 | I/O | TAUJ1I3/TAUJ1O3/DPIN16 |
| 23 | JP0_5 | I/O | NMI/TAUJ0I3/TAUJ0O3/DCURDY#/LPDCLKOUT |
| 24 | JP0_4 | I/O | DCUTRST# |
| 25 | JP0_3 | I/O | INTP3/TAUJ0I2/TAUJ0O2/DCUTMS |
| 26 | JP0_2 | I/O | INTP2/TAUJ0I1/TAUJ0O1/DCUTCK/LPDCLK |
| 27 | JP0_1 | I/O | INTP1/TAUJ0I0/TAUJ0O0/DCUTDO/LPDO |
| 28 | JP0_0 | I/O | INTP0/DCUTDI/LPDI/LPDIO |
| 29 | \RESET | Input | - |
| 30 | EVCC | Power | - |
| 31 | AWOVSS | Power | - |
| 32 | AWOVCL | Power | - |
| 33 | REGVCC | Power | - |
| 34 | X2 | Input | - |
| 35 | X1 | Input | - |
| 36 | FLMD0 | Input | - |
| 37 | P0_10 | I/O | INTP3/CSIH1CSS1/DPIN11/RLIN22TX/TAUB0I6/TAUB0O6/CAN4TX |
| 38 | P0_9 | I/O | INTP12/CSIH1CSS0/DPIN7/RLIN22RX/TAUB0I4/TAUB0O4/CAN4RX/INTP4 |
| 39 | P0_8 | I/O | RLIN21TX/DPIN6/CSIH1SSI#/TAUB0I2/TAUB0O2/CAN3TX |
| 40 | P0_7 | I/O | RLIN21RX/DPIN5/CSIH1RYI/CSIH1RYO/TAUB0I0/TAUB0O0/CAN3RX/INTP3 |
| 41 | EVSS | Power | - |
| 42 | P8_0 | I/O | TAUJ0I0/TAUJ0O0/DPIN2/PWGA14O/INTP4/CSIH0CSS0 |
| 43 | P8_1 | I/O | TAUJ0O1/DPIN0/INTP5/CSIH1CSS3 |
| 44 | P8_3 | I/O | TAUJ0I1/TAUJ0O1/DPIN3/CSIH0CSS1/INTP7 |
| 45 | P8_4 | I/O | TAUJ0I2/TAUJ0O2/DPIN4/CSIH0CSS2/INTP8 |
| 46 | P8_5 | I/O | TAUJ0I3/TAUJ0O3/CSIH0CSS3 |
| 47 | P8_6 | I/O | NMI |
| 48 | P8_7 | I/O | - |

| Pin Number | Primary Pin Name | Primary Electrical Type | Alternate Pin Name(s) |
|---|---|---|---|
| 49 | P8_8 | I/O | - |
| 50 | P8_9 | I/O | - |
| 51 | A0VSS | Power | - |
| 52 | A0VREF | Power | - |
| 53 | AP0_15 | I/O | ADCA0I15 |
| 54 | AP0_14 | I/O | ADCA0I14 |
| 55 | AP0_13 | I/O | ADCA0I13 |
| 56 | AP0_12 | I/O | ADCA0I12 |
| 57 | AP0_11 | I/O | ADCA0I11 |
| 58 | AP0_10 | I/O | ADCA0I10 |
| 59 | AP0_9 | I/O | ADCA0I9 |
| 60 | AP0_8 | I/O | ADCA0I8 |
| 61 | AP0_7 | I/O | ADCA0I7 |
| 62 | AP0_6 | I/O | ADCA0I6 |
| 63 | AP0_5 | I/O | ADCA0I5 |
| 64 | AP0_4 | I/O | ADCA0I4 |
| 65 | AP0_3 | I/O | ADCA0I3 |
| 66 | AP0_2 | I/O | ADCA0I2 |
| 67 | AP0_1 | I/O | ADCA0I1 |
| 68 | P9_0 | I/O | NMI/PWGA8O/TAUD0I0/TAUD0O0/ADCA0TRG0/CSIH2CSS0/KR0I4 |
| 69 | P9_1 | I/O | INTP11/PWGA9O/TAUD0I2/TAUD0O2/KR0I5/CSIH2CSS1 |
| 70 | EVSS | Power | - |
| 71 | ISOVCL | Power | - |
| 72 | ISOVSS | Power | - |
| 73 | P20_5 | I/O | RLIN23TX |
| 74 | P20_4 | I/O | RLIN23RX |
| 75 | EVCC | Power | - |
| 76 | EVSS | Power | - |
| 77 | EVCC | Power | - |
| 78 | ISOVCL | Power | - |
| 79 | ISOVSS | Power | - |
| 80 | EVSS | Power | - |
| 81 | P10_6 | I/O | TAUD0I13/TAUD0O13/CSIG0SO/CAN1RX/INTP1 |
| 82 | P10_7 | I/O | TAUD0I15/TAUD0O15/CSIG0SC/PWGA4O/CAN1TX |
| 83 | FLMD1 | Input | P10_8/TAUD0I10/TAUD0O10/CSIG0SI/PWGA5O |
| 84 | P10_9 | I/O | TAUD0I12/TAUD0O12/RLIN30RX/INTP10/PWGA6O/CSIH0RYI/CSIH0RYO |
| 85 | P10_10 | I/O | TAUD0I14/TAUD0O14/RLIN30TX/PWGA7O/CSIH0CSS1 |
| 86 | P10_11 | I/O | RLIN31RX/INTP11/CSIH1CSS0/TAUB0I1/TAUB0O1 |
| 87 | P10_12 | I/O | RLIN31TX/CSIH1CSS1/TAUB0I3/TAUB0O3 |
| 88 | P10_13 | I/O | CSIH0SSI#/INTP12/TAUB0I5/TAUB0O5/CAN7TX |
| 89 | P10_14 | I/O | TAUB0I7/TAUB0O7/CAN7RX/INTP9 |
| 90 | P11_1 | I/O | CSIH2SSI#/RLIN20RX/TAUB0I13/TAUB0O13 |
| 91 | P11_2 | I/O | CSIH2SO/RLIN20TX/TAUB0I15/TAUB0O15 |
| 92 | P11_3 | I/O | CSIH2SC/CAN3RX/INTP3 |
| 93 | P11_4 | I/O | CSIH2SI/CAN3TX |
| 94 | P11_5 | I/O | CAN5RX/INTP5 |
| 95 | P11_6 | I/O | INTP13/CAN5TX |
| 96 | EVCC | Power | - |
| 97 | EVSS | Power | - |
| 98 | P10_0 | I/O | TAUD0I1/TAUD0O1/CAN0RX/INTP0/PWGA0O/CSIH1SI |
| 99 | P10_1 | I/O | TAUD0I3/TAUD0O3/CAN0TX/PWGA1O/CSIH1SC/MODE0 |
| 100 | P10_2 | I/O | TAUD0I5/TAUD0O5/RIIC0SDA/KR0I0/PWGA2O/ADCA0TRG0/CSIH1SO/MODE1 |

## A.3 Symbol Parameters

| Orderable Part Number | Min Input Voltage | Max Input Voltage | Max Output Frequency | Min Operating Temperature | Max Operating Temperature | RAM Size | Memory Size | Interface | Number of ADC Channels | Number of I2C Channels | Number of SPI Channels | Number of UART Channels | Number of Timers/Counters |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R7F7015013AFD-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015013AFD-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015013AFD-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015013AFE-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015013AFE-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015013AFE-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015014AFD-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015014AFD-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015014AFD-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015014AFE-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015014AFE-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |

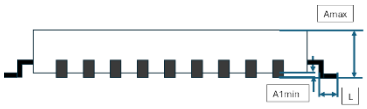
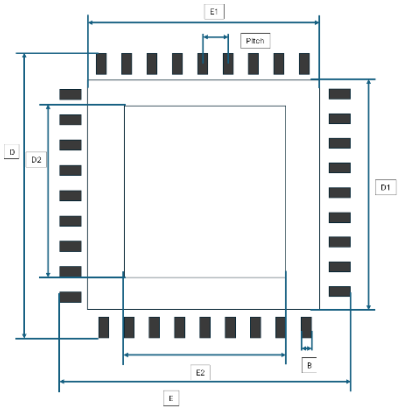
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R7F7015014AFE-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 320 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015023AFD-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015023AFD-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015023AFD-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015023AFE-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015023AFE-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015023AFE-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015024AFD-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015024AFD-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015024AFD-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015024AFE-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015024AFE-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015024AFE-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +125 °C | 384 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 10-bit X 26-Ch, 12-bit X 32-Ch | 1 | 8 | 6 | 16-bit X 48-Ch, 32-bit X 8-Ch |
| R7F7015303AFD-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |

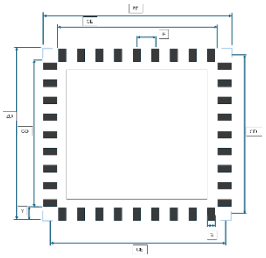
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R7F7015303AFD-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015303AFD-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015303AFE-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015303AFE-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015303AFE-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 3 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015313AFD-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015313AFD-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015313AFD-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015313AFE-C#AA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015313AFE-C#BA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |
| R7F7015313AFE-C#KA2 | 3 V | 5.5 V | 120 MHz | –40° C | +105 °C | 512 KB | 4 MB | SCI, UART, LIN, CAN, I2C | 12-bit X 15-Ch | 1 | 4 | 2 | 16-bit X 32-Ch, 32-bit X 8-Ch |

## A.4 Footprint Design Information

### A.4.1 176-LFQFP

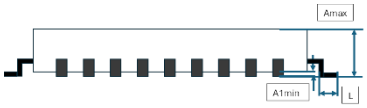
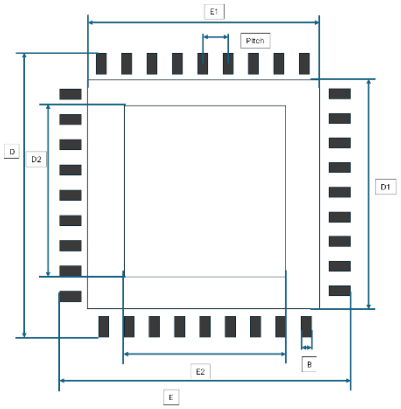
| IPC Footprint Type | Package Code/ POD number | Number of Pins |
|---|---|---|
| QFP | PLQP0176KH-A | 176 |

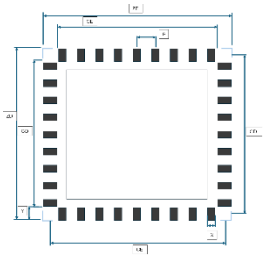
| Description | Dimension | Value (mm) | Diagram |
|---|---|---|---|
| Minimum lead span (vertical side) | Dmin | 25.8 |   |
| Maximum lead span (vertical side) | Dmax | 26.2 | |
| Minimum lead span (horizontal side) | Emin | 25.8 | |
| Maximum lead span (horizontal side) | Emax | 26.2 | |
| Minimum body span (vertical side) | D1min | 24.2 | |
| Maximum body span (vertical side) | D1max | 24.2 | |
| Minimum body span (horizontal side) | E1min | 24.2 | |
| Maximum body span (horizontal side) | E1max | 24.2 | |
| Minimum Lead Width | Bmin | 0.17 | |
| Maximum Lead Width | Bmax | 0.27 | |
| Minimum Lead Length | Lmin | 0.45 | |
| Maximum Lead Length | Lmax | 0.75 | |
| Maximum Height | Amax | 1.6 |   |
| Minimum Standoff Height | A1min | 0.05 | |
| Minimum Lead Thickness | cmin | 0.09 | |
| Maximum Lead Thickness | cmax | 0.2 | |
| Number of pins (vertical side) | PinCountD | 44 | |
| Number of pins (horizontal side) | PinCountE | 44 | |
| Distance between the center of any two adjacent pins | Pitch | 0.5 | |
| Location of pin 1;<br>S2 = corner of D side, C1 = center of E side | Pin1 | S2 | |
| Minimum thermal pad size (vertical side) | D2min | - | |
| Maximum thermal pad size (vertical side) | D2max | - | |
| Minimum thermal pad size (horizontal side) | E2min | - | |
| Maximum thermal pad size (horizontal side) | E2max | - | |

| Recommended Land Pattern (NSMD Design) | | | |
|---|---|---|---|
| **Description** | **Dimension** | **Value (mm)** | **Diagram** |
| Distance between left pad toe to right pad toe (horizontal side) | ZE | - |  |
| Distance between top pad toe to bottom pad toe (vertical side) | ZD | - | |
| Distance between left pad heel to right pad heel (horizontal side) | GE | - | |
| Distance between top pad heel to bottom pad heel (vertical side) | GD | - | |
| Pad Width | X | - | |
| Pad Length | Y | - | |

## A.4.2 **176-LFQFP**

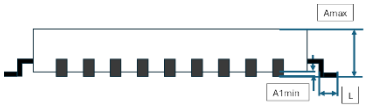
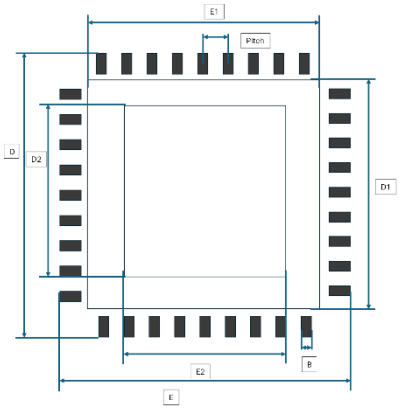
| IPC Footprint Type | Package Code/ POD number | Number of Pins |
|---|---|---|
| QFP | PLQP0176KG-A | 176 |

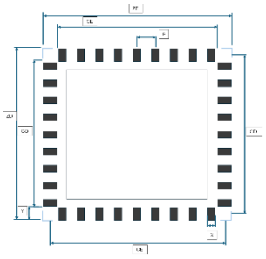
| Description | Dimension | Value (mm) | Diagram |
|---|---|---|---|
| Minimum lead span (vertical side) | Dmin | 25.8 |   |
| Maximum lead span (vertical side) | Dmax | 26.2 | |
| Minimum lead span (horizontal side) | Emin | 25.8 | |
| Maximum lead span (horizontal side) | Emax | 26.2 | |
| Minimum body span (vertical side) | D1min | 24.2 | |
| Maximum body span (vertical side) | D1max | 24.2 | |
| Minimum body span (horizontal side) | E1min | 24.2 | |
| Maximum body span (horizontal side) | E1max | 24.2 | |
| Minimum Lead Width | Bmin | 0.17 | |
| Maximum Lead Width | Bmax | 0.27 | |
| Minimum Lead Length | Lmin | 0.45 | |
| Maximum Lead Length | Lmax | 0.75 | |
| Maximum Height | Amax | 1.6 |   |
| Minimum Standoff Height | A1min | 0.05 | |
| Minimum Lead Thickness | cmin | 0.09 | |
| Maximum Lead Thickness | cmax | 0.2 | |
| Number of pins (vertical side) | PinCountD | 44 | |
| Number of pins (horizontal side) | PinCountE | 44 | |
| Distance between the center of any two adjacent pins | Pitch | 0.5 | |
| Location of pin 1;<br>S2 = corner of D side, C1 = center of E side | Pin1 | S2 | |
| Minimum thermal pad size (vertical side) | D2min | - | |
| Maximum thermal pad size (vertical side) | D2max | - | |
| Minimum thermal pad size (horizontal side) | E2min | - | |
| Maximum thermal pad size (horizontal side) | E2max | - | |

| Recommended Land Pattern (NSMD Design) | | | |
|---|---|---|---|
| **Description** | **Dimension** | **Value (mm)** | **Diagram** |
| Distance between left pad toe to right pad toe (horizontal side) | ZE | - |  |
| Distance between top pad toe to bottom pad toe (vertical side) | ZD | - | |
| Distance between left pad heel to right pad heel (horizontal side) | GE | - | |
| Distance between top pad heel to bottom pad heel (vertical side) | GD | - | |
| Pad Width | X | - | |
| Pad Length | Y | - | |

## A.4.3 **100-LFQFP**

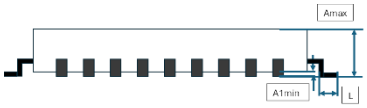
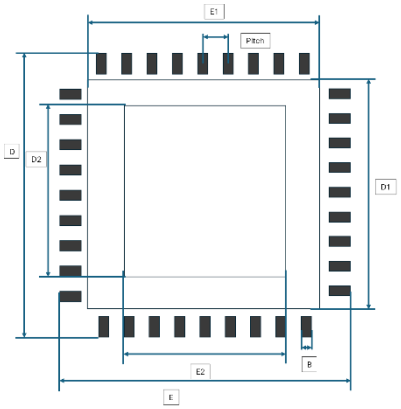
| IPC Footprint Type | Package Code/ POD number | Number of Pins |
|---|---|---|
| QFP | PLQP0100KM-A | 100 |

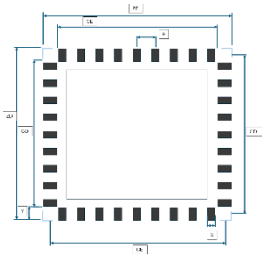
| Description | Dimension | Value (mm) | Diagram |
|---|---|---|---|
| Minimum lead span (vertical side) | Dmin | 16.2 |   |
| Maximum lead span (vertical side) | Dmax | 16.2 | |
| Minimum lead span (horizontal side) | Emin | 16.2 | |
| Maximum lead span (horizontal side) | Emax | 16.2 | |
| Minimum body span (vertical side) | D1min | 14.2 | |
| Maximum body span (vertical side) | D1max | 14.2 | |
| Minimum body span (horizontal side) | E1min | 14.2 | |
| Maximum body span (horizontal side) | E1max | 14.2 | |
| Minimum Lead Width | Bmin | 0.17 | |
| Maximum Lead Width | Bmax | 0.27 | |
| Minimum Lead Length | Lmin | 0.45 | |
| Maximum Lead Length | Lmax | 0.75 | |
| Maximum Height | Amax | 1.6 |   |
| Minimum Standoff Height | A1min | 0.05 | |
| Minimum Lead Thickness | cmin | 0.09 | |
| Maximum Lead Thickness | cmax | 0.2 | |
| Number of pins (vertical side) | PinCountD | 25 | |
| Number of pins (horizontal side) | PinCountE | 25 | |
| Distance between the center of any two adjacent pins | Pitch | 0.5 | |
| Location of pin 1;<br>S2 = corner of D side, C1 = center of E side | Pin1 | S2 | |
| Minimum thermal pad size (vertical side) | D2min | - | |
| Maximum thermal pad size (vertical side) | D2max | - | |
| Minimum thermal pad size (horizontal side) | E2min | - | |
| Maximum thermal pad size (horizontal side) | E2max | - | |

| Recommended Land Pattern (NSMD Design) | | | |
|---|---|---|---|
| **Description** | **Dimension** | **Value (mm)** | **Diagram** |
| Distance between left pad toe to right pad toe (horizontal side) | ZE | - |  |
| Distance between top pad toe to bottom pad toe (vertical side) | ZD | - | |
| Distance between left pad heel to right pad heel (horizontal side) | GE | - | |
| Distance between top pad heel to bottom pad heel (vertical side) | GD | - | |
| Pad Width | X | - | |
| Pad Length | Y | - | |

## A.4.4 **100-LFQFP**

| IPC Footprint Type | Package Code/ POD number | Number of Pins |
|---|---|---|
| QFP | PLQP0100KL-A | 100 |

| Description | Dimension | Value (mm) | Diagram |
|---|---|---|---|
| Minimum lead span (vertical side) | Dmin | 16.2 |   |
| Maximum lead span (vertical side) | Dmax | 16.2 | |
| Minimum lead span (horizontal side) | Emin | 16.2 | |
| Maximum lead span (horizontal side) | Emax | 16.2 | |
| Minimum body span (vertical side) | D1min | 14.2 | |
| Maximum body span (vertical side) | D1max | 14.2 | |
| Minimum body span (horizontal side) | E1min | 14.2 | |
| Maximum body span (horizontal side) | E1max | 14.2 | |
| Minimum Lead Width | Bmin | 0.17 | |
| Maximum Lead Width | Bmax | 0.27 | |
| Minimum Lead Length | Lmin | 0.45 | |
| Maximum Lead Length | Lmax | 0.75 | |
| Maximum Height | Amax | 1.6 |   |
| Minimum Standoff Height | A1min | 0.05 | |
| Minimum Lead Thickness | cmin | 0.09 | |
| Maximum Lead Thickness | cmax | 0.2 | |
| Number of pins (vertical side) | PinCountD | 25 | |
| Number of pins (horizontal side) | PinCountE | 25 | |
| Distance between the center of any two adjacent pins | Pitch | 0.5 | |
| Location of pin 1;<br>S2 = corner of D side, C1 = center of E side | Pin1 | S2 | |
| Minimum thermal pad size (vertical side) | D2min | - | |
| Maximum thermal pad size (vertical side) | D2max | - | |
| Minimum thermal pad size (horizontal side) | E2min | - | |
| Maximum thermal pad size (horizontal side) | E2max | - | |

| Recommended Land Pattern (NSMD Design) | | | |
|---|---|---|---|
| **Description** | **Dimension** | **Value (mm)** | **Diagram** |
| Distance between left pad toe to right pad toe (horizontal side) | ZE | - |  |
| Distance between top pad toe to bottom pad toe (vertical side) | ZD | - | |
| Distance between left pad heel to right pad heel (horizontal side) | GE | - | |
| Distance between top pad heel to bottom pad heel (vertical side) | GD | - | |
| Pad Width | X | - | |
| Pad Length | Y | - | |