|  |  |  |  |
| --- | --- | --- | --- |
| Номер вывода кристалла | Обозначение вывода кристалла | X  мкм | Y  мкм |
| A1 | no bump | -4860.0 | 4860.0 |
| A2 | - | -4680.0 | 4860.0 |
| A3 | - | -4500.0 | 4860.0 |
| A4 | - | -4320.0 | 4860.0 |
| A5 | GND\_ESD\_PLL | -4140.0 | 4860.0 |
| A6 | GND\_CP | -3960.0 | 4860.0 |
| A7 | AVDD\_CP | -3780.0 | 4860.0 |
| A8 | AVDD\_PLL | -3600.0 | 4860.0 |
| A9 | GND\_PLL | -3420.0 | 4860.0 |
| A10 | AVDD\_VR\_PLL | -3240.0 | 4860.0 |
| A11 | GND\_VR\_PLL | -3060.0 | 4860.0 |
| A12 | VR\_PLL\_OUT | -2880.0 | 4860.0 |
| A13 | CVDD\_PLL | -2700.0 | 4860.0 |
| A14 | CVDD\_VCO | -2520.0 | 4860.0 |
| A15 | GND\_ESD\_PLL | -2340.0 | 4860.0 |
| A16 | - | -2160.0 | 4860.0 |
| A17 | no bump | -1980.0 | 4860.0 |
| A18 | None | -1800.0 | 4860.0 |
| A19 | None | -1620.0 | 4860.0 |
| A20 | None | -1440.0 | 4860.0 |
| A21 | None | -1260.0 | 4860.0 |
| A22 | None | -1080.0 | 4860.0 |
| A23 | None | -900.0 | 4860.0 |
| A24 | None | -720.0 | 4860.0 |
| A25 | None | -540.0 | 4860.0 |
| A26 | None | -360.0 | 4860.0 |
| A27 | None | -180.0 | 4860.0 |
| A28 | None | 0.0 | 4860.0 |
| A29 | None | 180.0 | 4860.0 |
| A30 | None | 360.0 | 4860.0 |
| A31 | None | 540.0 | 4860.0 |
| A32 | None | 720.0 | 4860.0 |
| A33 | None | 900.0 | 4860.0 |
| A34 | None | 1080.0 | 4860.0 |
| A35 | None | 1260.0 | 4860.0 |
| A36 | None | 1440.0 | 4860.0 |
| A37 | None | 1620.0 | 4860.0 |
| A38 | None | 1800.0 | 4860.0 |
| A39 | None | 1980.0 | 4860.0 |
| A40 | None | 2160.0 | 4860.0 |
| A41 | None | 2340.0 | 4860.0 |
| A42 | None | 2520.0 | 4860.0 |
| A43 | None | 2700.0 | 4860.0 |
| A44 | None | 2880.0 | 4860.0 |
| A45 | None | 3060.0 | 4860.0 |
| A46 | None | 3240.0 | 4860.0 |
| A47 | None | 3420.0 | 4860.0 |
| A48 | None | 3600.0 | 4860.0 |
| A49 | None | 3780.0 | 4860.0 |
| A50 | None | 3960.0 | 4860.0 |
| A51 | None | 4140.0 | 4860.0 |
| A52 | None | 4320.0 | 4860.0 |
| A53 | None | 4500.0 | 4860.0 |
| A54 | None | 4680.0 | 4860.0 |
| A55 | None | 4860.0 | 4860.0 |
| B1 | - | -4860.0 | 4680.0 |
| B2 | - | -4680.0 | 4680.0 |
| B3 | - | -4500.0 | 4680.0 |
| B4 | - | -4320.0 | 4680.0 |
| B5 | GND\_ESD\_PLL | -4140.0 | 4680.0 |
| B6 | GND\_CP | -3960.0 | 4680.0 |
| B7 | AVDD\_CP | -3780.0 | 4680.0 |
| B8 | AVDD\_PLL | -3600.0 | 4680.0 |
| B9 | GND\_PLL | -3420.0 | 4680.0 |
| B10 | AVDD\_VR\_PLL | -3240.0 | 4680.0 |
| B11 | GND\_VR\_PLL | -3060.0 | 4680.0 |
| B12 | VR\_PLL\_OUT | -2880.0 | 4680.0 |
| B13 | GND\_PLL | -2700.0 | 4680.0 |
| B14 | GND\_VCO | -2520.0 | 4680.0 |
| B15 | GND\_ESD\_PLL | -2340.0 | 4680.0 |
| B16 | - | -2160.0 | 4680.0 |
| B17 | - | -1980.0 | 4680.0 |
| B18 | None | -1800.0 | 4680.0 |
| B19 | None | -1620.0 | 4680.0 |
| B20 | None | -1440.0 | 4680.0 |
| B21 | None | -1260.0 | 4680.0 |
| B22 | None | -1080.0 | 4680.0 |
| B23 | None | -900.0 | 4680.0 |
| B24 | None | -720.0 | 4680.0 |
| B25 | None | -540.0 | 4680.0 |
| B26 | None | -360.0 | 4680.0 |
| B27 | None | -180.0 | 4680.0 |
| B28 | None | 0.0 | 4680.0 |
| B29 | None | 180.0 | 4680.0 |
| B30 | None | 360.0 | 4680.0 |
| B31 | None | 540.0 | 4680.0 |
| B32 | None | 720.0 | 4680.0 |
| B33 | None | 900.0 | 4680.0 |
| B34 | None | 1080.0 | 4680.0 |
| B35 | None | 1260.0 | 4680.0 |
| B36 | None | 1440.0 | 4680.0 |
| B37 | None | 1620.0 | 4680.0 |
| B38 | None | 1800.0 | 4680.0 |
| B39 | None | 1980.0 | 4680.0 |
| B40 | None | 2160.0 | 4680.0 |
| B41 | None | 2340.0 | 4680.0 |
| B42 | None | 2520.0 | 4680.0 |
| B43 | None | 2700.0 | 4680.0 |
| B44 | None | 2880.0 | 4680.0 |
| B45 | None | 3060.0 | 4680.0 |
| B46 | None | 3240.0 | 4680.0 |
| B47 | None | 3420.0 | 4680.0 |
| B48 | None | 3600.0 | 4680.0 |
| B49 | None | 3780.0 | 4680.0 |
| B50 | None | 3960.0 | 4680.0 |
| B51 | None | 4140.0 | 4680.0 |
| B52 | None | 4320.0 | 4680.0 |
| B53 | None | 4500.0 | 4680.0 |
| B54 | None | 4680.0 | 4680.0 |
| B55 | None | 4860.0 | 4680.0 |
| C1 | - | -4860.0 | 4500.0 |
| C2 | - | -4680.0 | 4500.0 |
| C3 | - | -4500.0 | 4500.0 |
| C4 | - | -4320.0 | 4500.0 |
| C5 | GND\_ESD\_PLL | -4140.0 | 4500.0 |
| C6 | FLT\_IN | -3960.0 | 4500.0 |
| C7 | FLT\_OUT | -3780.0 | 4500.0 |
| C8 | no bump | -3600.0 | 4500.0 |
| C9 | no bump | -3420.0 | 4500.0 |
| C10 | no bump | -3240.0 | 4500.0 |
| C11 | no bump | -3060.0 | 4500.0 |
| C12 | no bump | -2880.0 | 4500.0 |
| C13 | no bump | -2700.0 | 4500.0 |
| C14 | no bump | -2520.0 | 4500.0 |
| C15 | - | -2340.0 | 4500.0 |
| C16 | - | -2160.0 | 4500.0 |
| C17 | - | -1980.0 | 4500.0 |
| C18 | None | -1800.0 | 4500.0 |
| C19 | None | -1620.0 | 4500.0 |
| C20 | None | -1440.0 | 4500.0 |
| C21 | None | -1260.0 | 4500.0 |
| C22 | None | -1080.0 | 4500.0 |
| C23 | None | -900.0 | 4500.0 |
| C24 | None | -720.0 | 4500.0 |
| C25 | None | -540.0 | 4500.0 |
| C26 | None | -360.0 | 4500.0 |
| C27 | None | -180.0 | 4500.0 |
| C28 | None | 0.0 | 4500.0 |
| C29 | None | 180.0 | 4500.0 |
| C30 | None | 360.0 | 4500.0 |
| C31 | None | 540.0 | 4500.0 |
| C32 | None | 720.0 | 4500.0 |
| C33 | None | 900.0 | 4500.0 |
| C34 | None | 1080.0 | 4500.0 |
| C35 | None | 1260.0 | 4500.0 |
| C36 | None | 1440.0 | 4500.0 |
| C37 | None | 1620.0 | 4500.0 |
| C38 | None | 1800.0 | 4500.0 |
| C39 | None | 1980.0 | 4500.0 |
| C40 | None | 2160.0 | 4500.0 |
| C41 | None | 2340.0 | 4500.0 |
| C42 | None | 2520.0 | 4500.0 |
| C43 | None | 2700.0 | 4500.0 |
| C44 | None | 2880.0 | 4500.0 |
| C45 | None | 3060.0 | 4500.0 |
| C46 | None | 3240.0 | 4500.0 |
| C47 | None | 3420.0 | 4500.0 |
| C48 | None | 3600.0 | 4500.0 |
| C49 | None | 3780.0 | 4500.0 |
| C50 | None | 3960.0 | 4500.0 |
| C51 | None | 4140.0 | 4500.0 |
| C52 | None | 4320.0 | 4500.0 |
| C53 | None | 4500.0 | 4500.0 |
| C54 | None | 4680.0 | 4500.0 |
| C55 | None | 4860.0 | 4500.0 |
| D1 | AVDD\_MIX | -4860.0 | 4320.0 |
| D2 | AVDD\_MIX | -4680.0 | 4320.0 |
| D3 | no bump | -4500.0 | 4320.0 |
| D4 | no bump | -4320.0 | 4320.0 |
| D5 | no bump | -4140.0 | 4320.0 |
| D6 | no bump | -3960.0 | 4320.0 |
| D7 | no bump | -3780.0 | 4320.0 |
| D8 | no bump | -3600.0 | 4320.0 |
| D9 | no bump | -3420.0 | 4320.0 |
| D10 | no bump | -3240.0 | 4320.0 |
| D11 | - | -3060.0 | 4320.0 |
| D12 | - | -2880.0 | 4320.0 |
| D13 | - | -2700.0 | 4320.0 |
| D14 | - | -2520.0 | 4320.0 |
| D15 | - | -2340.0 | 4320.0 |
| D16 | - | -2160.0 | 4320.0 |
| D17 | - | -1980.0 | 4320.0 |
| D18 | None | -1800.0 | 4320.0 |
| D19 | None | -1620.0 | 4320.0 |
| D20 | None | -1440.0 | 4320.0 |
| D21 | None | -1260.0 | 4320.0 |
| D22 | None | -1080.0 | 4320.0 |
| D23 | None | -900.0 | 4320.0 |
| D24 | None | -720.0 | 4320.0 |
| D25 | None | -540.0 | 4320.0 |
| D26 | None | -360.0 | 4320.0 |
| D27 | None | -180.0 | 4320.0 |
| D28 | None | 0.0 | 4320.0 |
| D29 | None | 180.0 | 4320.0 |
| D30 | None | 360.0 | 4320.0 |
| D31 | None | 540.0 | 4320.0 |
| D32 | None | 720.0 | 4320.0 |
| D33 | None | 900.0 | 4320.0 |
| D34 | None | 1080.0 | 4320.0 |
| D35 | None | 1260.0 | 4320.0 |
| D36 | None | 1440.0 | 4320.0 |
| D37 | None | 1620.0 | 4320.0 |
| D38 | None | 1800.0 | 4320.0 |
| D39 | None | 1980.0 | 4320.0 |
| D40 | None | 2160.0 | 4320.0 |
| D41 | None | 2340.0 | 4320.0 |
| D42 | None | 2520.0 | 4320.0 |
| D43 | None | 2700.0 | 4320.0 |
| D44 | None | 2880.0 | 4320.0 |
| D45 | None | 3060.0 | 4320.0 |
| D46 | None | 3240.0 | 4320.0 |
| D47 | None | 3420.0 | 4320.0 |
| D48 | None | 3600.0 | 4320.0 |
| D49 | None | 3780.0 | 4320.0 |
| D50 | None | 3960.0 | 4320.0 |
| D51 | None | 4140.0 | 4320.0 |
| D52 | None | 4320.0 | 4320.0 |
| D53 | None | 4500.0 | 4320.0 |
| D54 | None | 4680.0 | 4320.0 |
| D55 | None | 4860.0 | 4320.0 |
| E1 | GND\_MIX | -4860.0 | 4140.0 |
| E2 | GND\_MIX | -4680.0 | 4140.0 |
| E3 | no bump | -4500.0 | 4140.0 |
| E4 | no bump | -4320.0 | 4140.0 |
| E5 | no bump | -4140.0 | 4140.0 |
| E6 | no bump | -3960.0 | 4140.0 |
| E7 | no bump | -3780.0 | 4140.0 |
| E8 | no bump | -3600.0 | 4140.0 |
| E9 | no bump | -3420.0 | 4140.0 |
| E10 | no bump | -3240.0 | 4140.0 |
| E11 | - | -3060.0 | 4140.0 |
| E12 | - | -2880.0 | 4140.0 |
| E13 | - | -2700.0 | 4140.0 |
| E14 | - | -2520.0 | 4140.0 |
| E15 | - | -2340.0 | 4140.0 |
| E16 | - | -2160.0 | 4140.0 |
| E17 | - | -1980.0 | 4140.0 |
| E18 | None | -1800.0 | 4140.0 |
| E19 | None | -1620.0 | 4140.0 |
| E20 | None | -1440.0 | 4140.0 |
| E21 | None | -1260.0 | 4140.0 |
| E22 | None | -1080.0 | 4140.0 |
| E23 | None | -900.0 | 4140.0 |
| E24 | None | -720.0 | 4140.0 |
| E25 | None | -540.0 | 4140.0 |
| E26 | None | -360.0 | 4140.0 |
| E27 | None | -180.0 | 4140.0 |
| E28 | None | 0.0 | 4140.0 |
| E29 | None | 180.0 | 4140.0 |
| E30 | None | 360.0 | 4140.0 |
| E31 | None | 540.0 | 4140.0 |
| E32 | None | 720.0 | 4140.0 |
| E33 | None | 900.0 | 4140.0 |
| E34 | None | 1080.0 | 4140.0 |
| E35 | None | 1260.0 | 4140.0 |
| E36 | None | 1440.0 | 4140.0 |
| E37 | None | 1620.0 | 4140.0 |
| E38 | None | 1800.0 | 4140.0 |
| E39 | None | 1980.0 | 4140.0 |
| E40 | None | 2160.0 | 4140.0 |
| E41 | None | 2340.0 | 4140.0 |
| E42 | None | 2520.0 | 4140.0 |
| E43 | None | 2700.0 | 4140.0 |
| E44 | None | 2880.0 | 4140.0 |
| E45 | None | 3060.0 | 4140.0 |
| E46 | None | 3240.0 | 4140.0 |
| E47 | None | 3420.0 | 4140.0 |
| E48 | None | 3600.0 | 4140.0 |
| E49 | None | 3780.0 | 4140.0 |
| E50 | None | 3960.0 | 4140.0 |
| E51 | None | 4140.0 | 4140.0 |
| E52 | None | 4320.0 | 4140.0 |
| E53 | None | 4500.0 | 4140.0 |
| E54 | None | 4680.0 | 4140.0 |
| E55 | None | 4860.0 | 4140.0 |
| F1 | GND\_ESD\_LNA | -4860.0 | 3960.0 |
| F2 | GND\_LNA | -4680.0 | 3960.0 |
| F3 | no bump | -4500.0 | 3960.0 |
| F4 | no bump | -4320.0 | 3960.0 |
| F5 | no bump | -4140.0 | 3960.0 |
| F6 | no bump | -3960.0 | 3960.0 |
| F7 | no bump | -3780.0 | 3960.0 |
| F8 | no bump | -3600.0 | 3960.0 |
| F9 | no bump | -3420.0 | 3960.0 |
| F10 | no bump | -3240.0 | 3960.0 |
| F11 | - | -3060.0 | 3960.0 |
| F12 | - | -2880.0 | 3960.0 |
| F13 | - | -2700.0 | 3960.0 |
| F14 | - | -2520.0 | 3960.0 |
| F15 | - | -2340.0 | 3960.0 |
| F16 | - | -2160.0 | 3960.0 |
| F17 | - | -1980.0 | 3960.0 |
| F18 | None | -1800.0 | 3960.0 |
| F19 | None | -1620.0 | 3960.0 |
| F20 | None | -1440.0 | 3960.0 |
| F21 | None | -1260.0 | 3960.0 |
| F22 | None | -1080.0 | 3960.0 |
| F23 | None | -900.0 | 3960.0 |
| F24 | None | -720.0 | 3960.0 |
| F25 | None | -540.0 | 3960.0 |
| F26 | None | -360.0 | 3960.0 |
| F27 | None | -180.0 | 3960.0 |
| F28 | None | 0.0 | 3960.0 |
| F29 | None | 180.0 | 3960.0 |
| F30 | None | 360.0 | 3960.0 |
| F31 | None | 540.0 | 3960.0 |
| F32 | None | 720.0 | 3960.0 |
| F33 | None | 900.0 | 3960.0 |
| F34 | None | 1080.0 | 3960.0 |
| F35 | None | 1260.0 | 3960.0 |
| F36 | None | 1440.0 | 3960.0 |
| F37 | None | 1620.0 | 3960.0 |
| F38 | None | 1800.0 | 3960.0 |
| F39 | None | 1980.0 | 3960.0 |
| F40 | None | 2160.0 | 3960.0 |
| F41 | None | 2340.0 | 3960.0 |
| F42 | None | 2520.0 | 3960.0 |
| F43 | None | 2700.0 | 3960.0 |
| F44 | None | 2880.0 | 3960.0 |
| F45 | None | 3060.0 | 3960.0 |
| F46 | None | 3240.0 | 3960.0 |
| F47 | None | 3420.0 | 3960.0 |
| F48 | None | 3600.0 | 3960.0 |
| F49 | None | 3780.0 | 3960.0 |
| F50 | None | 3960.0 | 3960.0 |
| F51 | None | 4140.0 | 3960.0 |
| F52 | None | 4320.0 | 3960.0 |
| F53 | None | 4500.0 | 3960.0 |
| F54 | None | 4680.0 | 3960.0 |
| F55 | None | 4860.0 | 3960.0 |
| G1 | GND\_LNA | -4860.0 | 3780.0 |
| G2 | GND\_LNA | -4680.0 | 3780.0 |
| G3 | no bump | -4500.0 | 3780.0 |
| G4 | no bump | -4320.0 | 3780.0 |
| G5 | no bump | -4140.0 | 3780.0 |
| G6 | no bump | -3960.0 | 3780.0 |
| G7 | no bump | -3780.0 | 3780.0 |
| G8 | no bump | -3600.0 | 3780.0 |
| G9 | no bump | -3420.0 | 3780.0 |
| G10 | no bump | -3240.0 | 3780.0 |
| G11 | - | -3060.0 | 3780.0 |
| G12 | - | -2880.0 | 3780.0 |
| G13 | - | -2700.0 | 3780.0 |
| G14 | - | -2520.0 | 3780.0 |
| G15 | - | -2340.0 | 3780.0 |
| G16 | - | -2160.0 | 3780.0 |
| G17 | - | -1980.0 | 3780.0 |
| G18 | None | -1800.0 | 3780.0 |
| G19 | None | -1620.0 | 3780.0 |
| G20 | None | -1440.0 | 3780.0 |
| G21 | None | -1260.0 | 3780.0 |
| G22 | None | -1080.0 | 3780.0 |
| G23 | None | -900.0 | 3780.0 |
| G24 | None | -720.0 | 3780.0 |
| G25 | None | -540.0 | 3780.0 |
| G26 | None | -360.0 | 3780.0 |
| G27 | None | -180.0 | 3780.0 |
| G28 | None | 0.0 | 3780.0 |
| G29 | None | 180.0 | 3780.0 |
| G30 | None | 360.0 | 3780.0 |
| G31 | None | 540.0 | 3780.0 |
| G32 | None | 720.0 | 3780.0 |
| G33 | None | 900.0 | 3780.0 |
| G34 | None | 1080.0 | 3780.0 |
| G35 | None | 1260.0 | 3780.0 |
| G36 | None | 1440.0 | 3780.0 |
| G37 | None | 1620.0 | 3780.0 |
| G38 | None | 1800.0 | 3780.0 |
| G39 | None | 1980.0 | 3780.0 |
| G40 | None | 2160.0 | 3780.0 |
| G41 | None | 2340.0 | 3780.0 |
| G42 | None | 2520.0 | 3780.0 |
| G43 | None | 2700.0 | 3780.0 |
| G44 | None | 2880.0 | 3780.0 |
| G45 | None | 3060.0 | 3780.0 |
| G46 | None | 3240.0 | 3780.0 |
| G47 | None | 3420.0 | 3780.0 |
| G48 | None | 3600.0 | 3780.0 |
| G49 | None | 3780.0 | 3780.0 |
| G50 | None | 3960.0 | 3780.0 |
| G51 | None | 4140.0 | 3780.0 |
| G52 | None | 4320.0 | 3780.0 |
| G53 | None | 4500.0 | 3780.0 |
| G54 | None | 4680.0 | 3780.0 |
| G55 | None | 4860.0 | 3780.0 |
| H1 | GND\_LNA | -4860.0 | 3600.0 |
| H2 | RF\_IN | -4680.0 | 3600.0 |
| H3 | no bump | -4500.0 | 3600.0 |
| H4 | no bump | -4320.0 | 3600.0 |
| H5 | no bump | -4140.0 | 3600.0 |
| H6 | no bump | -3960.0 | 3600.0 |
| H7 | no bump | -3780.0 | 3600.0 |
| H8 | no bump | -3600.0 | 3600.0 |
| H9 | no bump | -3420.0 | 3600.0 |
| H10 | no bump | -3240.0 | 3600.0 |
| H11 | - | -3060.0 | 3600.0 |
| H12 | - | -2880.0 | 3600.0 |
| H13 | - | -2700.0 | 3600.0 |
| H14 | - | -2520.0 | 3600.0 |
| H15 | - | -2340.0 | 3600.0 |
| H16 | - | -2160.0 | 3600.0 |
| H17 | - | -1980.0 | 3600.0 |
| H18 | None | -1800.0 | 3600.0 |
| H19 | None | -1620.0 | 3600.0 |
| H20 | None | -1440.0 | 3600.0 |
| H21 | None | -1260.0 | 3600.0 |
| H22 | None | -1080.0 | 3600.0 |
| H23 | None | -900.0 | 3600.0 |
| H24 | None | -720.0 | 3600.0 |
| H25 | None | -540.0 | 3600.0 |
| H26 | None | -360.0 | 3600.0 |
| H27 | None | -180.0 | 3600.0 |
| H28 | None | 0.0 | 3600.0 |
| H29 | None | 180.0 | 3600.0 |
| H30 | None | 360.0 | 3600.0 |
| H31 | None | 540.0 | 3600.0 |
| H32 | None | 720.0 | 3600.0 |
| H33 | None | 900.0 | 3600.0 |
| H34 | None | 1080.0 | 3600.0 |
| H35 | None | 1260.0 | 3600.0 |
| H36 | None | 1440.0 | 3600.0 |
| H37 | None | 1620.0 | 3600.0 |
| H38 | None | 1800.0 | 3600.0 |
| H39 | None | 1980.0 | 3600.0 |
| H40 | None | 2160.0 | 3600.0 |
| H41 | None | 2340.0 | 3600.0 |
| H42 | None | 2520.0 | 3600.0 |
| H43 | None | 2700.0 | 3600.0 |
| H44 | None | 2880.0 | 3600.0 |
| H45 | None | 3060.0 | 3600.0 |
| H46 | None | 3240.0 | 3600.0 |
| H47 | None | 3420.0 | 3600.0 |
| H48 | None | 3600.0 | 3600.0 |
| H49 | None | 3780.0 | 3600.0 |
| H50 | None | 3960.0 | 3600.0 |
| H51 | None | 4140.0 | 3600.0 |
| H52 | None | 4320.0 | 3600.0 |
| H53 | None | 4500.0 | 3600.0 |
| H54 | None | 4680.0 | 3600.0 |
| H55 | None | 4860.0 | 3600.0 |
| J1 | GND\_LNA | -4860.0 | 3420.0 |
| J2 | GND\_LNA | -4680.0 | 3420.0 |
| J3 | no bump | -4500.0 | 3420.0 |
| J4 | no bump | -4320.0 | 3420.0 |
| J5 | no bump | -4140.0 | 3420.0 |
| J6 | no bump | -3960.0 | 3420.0 |
| J7 | no bump | -3780.0 | 3420.0 |
| J8 | no bump | -3600.0 | 3420.0 |
| J9 | no bump | -3420.0 | 3420.0 |
| J10 | no bump | -3240.0 | 3420.0 |
| J11 | - | -3060.0 | 3420.0 |
| J12 | - | -2880.0 | 3420.0 |
| J13 | - | -2700.0 | 3420.0 |
| J14 | - | -2520.0 | 3420.0 |
| J15 | - | -2340.0 | 3420.0 |
| J16 | GND\_VR\_DIG | -2160.0 | 3420.0 |
| J17 | GND\_VR\_DIG | -1980.0 | 3420.0 |
| J18 | None | -1800.0 | 3420.0 |
| J19 | None | -1620.0 | 3420.0 |
| J20 | None | -1440.0 | 3420.0 |
| J21 | None | -1260.0 | 3420.0 |
| J22 | None | -1080.0 | 3420.0 |
| J23 | None | -900.0 | 3420.0 |
| J24 | None | -720.0 | 3420.0 |
| J25 | None | -540.0 | 3420.0 |
| J26 | None | -360.0 | 3420.0 |
| J27 | None | -180.0 | 3420.0 |
| J28 | None | 0.0 | 3420.0 |
| J29 | None | 180.0 | 3420.0 |
| J30 | None | 360.0 | 3420.0 |
| J31 | None | 540.0 | 3420.0 |
| J32 | None | 720.0 | 3420.0 |
| J33 | None | 900.0 | 3420.0 |
| J34 | None | 1080.0 | 3420.0 |
| J35 | None | 1260.0 | 3420.0 |
| J36 | None | 1440.0 | 3420.0 |
| J37 | None | 1620.0 | 3420.0 |
| J38 | None | 1800.0 | 3420.0 |
| J39 | None | 1980.0 | 3420.0 |
| J40 | None | 2160.0 | 3420.0 |
| J41 | None | 2340.0 | 3420.0 |
| J42 | None | 2520.0 | 3420.0 |
| J43 | None | 2700.0 | 3420.0 |
| J44 | None | 2880.0 | 3420.0 |
| J45 | None | 3060.0 | 3420.0 |
| J46 | None | 3240.0 | 3420.0 |
| J47 | None | 3420.0 | 3420.0 |
| J48 | None | 3600.0 | 3420.0 |
| J49 | None | 3780.0 | 3420.0 |
| J50 | None | 3960.0 | 3420.0 |
| J51 | None | 4140.0 | 3420.0 |
| J52 | None | 4320.0 | 3420.0 |
| J53 | None | 4500.0 | 3420.0 |
| J54 | None | 4680.0 | 3420.0 |
| J55 | None | 4860.0 | 3420.0 |
| K1 | AVDD\_LNA | -4860.0 | 3240.0 |
| K2 | GND\_ESD\_LNA | -4680.0 | 3240.0 |
| K3 | no bump | -4500.0 | 3240.0 |
| K4 | no bump | -4320.0 | 3240.0 |
| K5 | no bump | -4140.0 | 3240.0 |
| K6 | no bump | -3960.0 | 3240.0 |
| K7 | no bump | -3780.0 | 3240.0 |
| K8 | no bump | -3600.0 | 3240.0 |
| K9 | no bump | -3420.0 | 3240.0 |
| K10 | no bump | -3240.0 | 3240.0 |
| K11 | - | -3060.0 | 3240.0 |
| K12 | - | -2880.0 | 3240.0 |
| K13 | - | -2700.0 | 3240.0 |
| K14 | - | -2520.0 | 3240.0 |
| K15 | - | -2340.0 | 3240.0 |
| K16 | AVDD\_VR\_DIG | -2160.0 | 3240.0 |
| K17 | AVDD\_VR\_DIG | -1980.0 | 3240.0 |
| K18 | None | -1800.0 | 3240.0 |
| K19 | None | -1620.0 | 3240.0 |
| K20 | None | -1440.0 | 3240.0 |
| K21 | None | -1260.0 | 3240.0 |
| K22 | None | -1080.0 | 3240.0 |
| K23 | None | -900.0 | 3240.0 |
| K24 | None | -720.0 | 3240.0 |
| K25 | None | -540.0 | 3240.0 |
| K26 | None | -360.0 | 3240.0 |
| K27 | None | -180.0 | 3240.0 |
| K28 | None | 0.0 | 3240.0 |
| K29 | None | 180.0 | 3240.0 |
| K30 | None | 360.0 | 3240.0 |
| K31 | None | 540.0 | 3240.0 |
| K32 | None | 720.0 | 3240.0 |
| K33 | None | 900.0 | 3240.0 |
| K34 | None | 1080.0 | 3240.0 |
| K35 | None | 1260.0 | 3240.0 |
| K36 | None | 1440.0 | 3240.0 |
| K37 | None | 1620.0 | 3240.0 |
| K38 | None | 1800.0 | 3240.0 |
| K39 | None | 1980.0 | 3240.0 |
| K40 | None | 2160.0 | 3240.0 |
| K41 | None | 2340.0 | 3240.0 |
| K42 | None | 2520.0 | 3240.0 |
| K43 | None | 2700.0 | 3240.0 |
| K44 | None | 2880.0 | 3240.0 |
| K45 | None | 3060.0 | 3240.0 |
| K46 | None | 3240.0 | 3240.0 |
| K47 | None | 3420.0 | 3240.0 |
| K48 | None | 3600.0 | 3240.0 |
| K49 | None | 3780.0 | 3240.0 |
| K50 | None | 3960.0 | 3240.0 |
| K51 | None | 4140.0 | 3240.0 |
| K52 | None | 4320.0 | 3240.0 |
| K53 | None | 4500.0 | 3240.0 |
| K54 | None | 4680.0 | 3240.0 |
| K55 | None | 4860.0 | 3240.0 |
| L1 | AVDD\_LNA | -4860.0 | 3060.0 |
| L2 | no bump | -4680.0 | 3060.0 |
| L3 | no bump | -4500.0 | 3060.0 |
| L4 | no bump | -4320.0 | 3060.0 |
| L5 | no bump | -4140.0 | 3060.0 |
| L6 | no bump | -3960.0 | 3060.0 |
| L7 | no bump | -3780.0 | 3060.0 |
| L8 | no bump | -3600.0 | 3060.0 |
| L9 | no bump | -3420.0 | 3060.0 |
| L10 | no bump | -3240.0 | 3060.0 |
| L11 | - | -3060.0 | 3060.0 |
| L12 | - | -2880.0 | 3060.0 |
| L13 | - | -2700.0 | 3060.0 |
| L14 | - | -2520.0 | 3060.0 |
| L15 | - | -2340.0 | 3060.0 |
| L16 | VR\_DIG\_OUT | -2160.0 | 3060.0 |
| L17 | VR\_DIG\_OUT | -1980.0 | 3060.0 |
| L18 | None | -1800.0 | 3060.0 |
| L19 | None | -1620.0 | 3060.0 |
| L20 | None | -1440.0 | 3060.0 |
| L21 | None | -1260.0 | 3060.0 |
| L22 | None | -1080.0 | 3060.0 |
| L23 | None | -900.0 | 3060.0 |
| L24 | None | -720.0 | 3060.0 |
| L25 | None | -540.0 | 3060.0 |
| L26 | None | -360.0 | 3060.0 |
| L27 | None | -180.0 | 3060.0 |
| L28 | None | 0.0 | 3060.0 |
| L29 | None | 180.0 | 3060.0 |
| L30 | None | 360.0 | 3060.0 |
| L31 | None | 540.0 | 3060.0 |
| L32 | None | 720.0 | 3060.0 |
| L33 | None | 900.0 | 3060.0 |
| L34 | None | 1080.0 | 3060.0 |
| L35 | None | 1260.0 | 3060.0 |
| L36 | None | 1440.0 | 3060.0 |
| L37 | None | 1620.0 | 3060.0 |
| L38 | None | 1800.0 | 3060.0 |
| L39 | None | 1980.0 | 3060.0 |
| L40 | None | 2160.0 | 3060.0 |
| L41 | None | 2340.0 | 3060.0 |
| L42 | None | 2520.0 | 3060.0 |
| L43 | None | 2700.0 | 3060.0 |
| L44 | None | 2880.0 | 3060.0 |
| L45 | None | 3060.0 | 3060.0 |
| L46 | None | 3240.0 | 3060.0 |
| L47 | None | 3420.0 | 3060.0 |
| L48 | None | 3600.0 | 3060.0 |
| L49 | None | 3780.0 | 3060.0 |
| L50 | None | 3960.0 | 3060.0 |
| L51 | None | 4140.0 | 3060.0 |
| L52 | None | 4320.0 | 3060.0 |
| L53 | None | 4500.0 | 3060.0 |
| L54 | None | 4680.0 | 3060.0 |
| L55 | None | 4860.0 | 3060.0 |
| M1 | - | -4860.0 | 2880.0 |
| M2 | no bump | -4680.0 | 2880.0 |
| M3 | no bump | -4500.0 | 2880.0 |
| M4 | no bump | -4320.0 | 2880.0 |
| M5 | no bump | -4140.0 | 2880.0 |
| M6 | no bump | -3960.0 | 2880.0 |
| M7 | no bump | -3780.0 | 2880.0 |
| M8 | no bump | -3600.0 | 2880.0 |
| M9 | no bump | -3420.0 | 2880.0 |
| M10 | no bump | -3240.0 | 2880.0 |
| M11 | - | -3060.0 | 2880.0 |
| M12 | - | -2880.0 | 2880.0 |
| M13 | - | -2700.0 | 2880.0 |
| M14 | - | -2520.0 | 2880.0 |
| M15 | GND\_ESD\_DIG | -2340.0 | 2880.0 |
| M16 | DVDD\_IO | -2160.0 | 2880.0 |
| M17 | DVDD\_IO | -1980.0 | 2880.0 |
| M18 | None | -1800.0 | 2880.0 |
| M19 | None | -1620.0 | 2880.0 |
| M20 | None | -1440.0 | 2880.0 |
| M21 | None | -1260.0 | 2880.0 |
| M22 | None | -1080.0 | 2880.0 |
| M23 | None | -900.0 | 2880.0 |
| M24 | None | -720.0 | 2880.0 |
| M25 | None | -540.0 | 2880.0 |
| M26 | None | -360.0 | 2880.0 |
| M27 | None | -180.0 | 2880.0 |
| M28 | None | 0.0 | 2880.0 |
| M29 | None | 180.0 | 2880.0 |
| M30 | None | 360.0 | 2880.0 |
| M31 | None | 540.0 | 2880.0 |
| M32 | None | 720.0 | 2880.0 |
| M33 | None | 900.0 | 2880.0 |
| M34 | None | 1080.0 | 2880.0 |
| M35 | None | 1260.0 | 2880.0 |
| M36 | None | 1440.0 | 2880.0 |
| M37 | None | 1620.0 | 2880.0 |
| M38 | None | 1800.0 | 2880.0 |
| M39 | None | 1980.0 | 2880.0 |
| M40 | None | 2160.0 | 2880.0 |
| M41 | None | 2340.0 | 2880.0 |
| M42 | None | 2520.0 | 2880.0 |
| M43 | None | 2700.0 | 2880.0 |
| M44 | None | 2880.0 | 2880.0 |
| M45 | None | 3060.0 | 2880.0 |
| M46 | None | 3240.0 | 2880.0 |
| M47 | None | 3420.0 | 2880.0 |
| M48 | None | 3600.0 | 2880.0 |
| M49 | None | 3780.0 | 2880.0 |
| M50 | None | 3960.0 | 2880.0 |
| M51 | None | 4140.0 | 2880.0 |
| M52 | None | 4320.0 | 2880.0 |
| M53 | None | 4500.0 | 2880.0 |
| M54 | None | 4680.0 | 2880.0 |
| M55 | None | 4860.0 | 2880.0 |
| N1 | - | -4860.0 | 2700.0 |
| N2 | - | -4680.0 | 2700.0 |
| N3 | - | -4500.0 | 2700.0 |
| N4 | no bump | -4320.0 | 2700.0 |
| N5 | no bump | -4140.0 | 2700.0 |
| N6 | no bump | -3960.0 | 2700.0 |
| N7 | no bump | -3780.0 | 2700.0 |
| N8 | no bump | -3600.0 | 2700.0 |
| N9 | no bump | -3420.0 | 2700.0 |
| N10 | no bump | -3240.0 | 2700.0 |
| N11 | - | -3060.0 | 2700.0 |
| N12 | - | -2880.0 | 2700.0 |
| N13 | - | -2700.0 | 2700.0 |
| N14 | - | -2520.0 | 2700.0 |
| N15 | GND\_ESD\_DIG | -2340.0 | 2700.0 |
| N16 | DVDD | -2160.0 | 2700.0 |
| N17 | DVDD | -1980.0 | 2700.0 |
| N18 | None | -1800.0 | 2700.0 |
| N19 | None | -1620.0 | 2700.0 |
| N20 | None | -1440.0 | 2700.0 |
| N21 | None | -1260.0 | 2700.0 |
| N22 | None | -1080.0 | 2700.0 |
| N23 | None | -900.0 | 2700.0 |
| N24 | None | -720.0 | 2700.0 |
| N25 | None | -540.0 | 2700.0 |
| N26 | None | -360.0 | 2700.0 |
| N27 | None | -180.0 | 2700.0 |
| N28 | None | 0.0 | 2700.0 |
| N29 | None | 180.0 | 2700.0 |
| N30 | None | 360.0 | 2700.0 |
| N31 | None | 540.0 | 2700.0 |
| N32 | None | 720.0 | 2700.0 |
| N33 | None | 900.0 | 2700.0 |
| N34 | None | 1080.0 | 2700.0 |
| N35 | None | 1260.0 | 2700.0 |
| N36 | None | 1440.0 | 2700.0 |
| N37 | None | 1620.0 | 2700.0 |
| N38 | None | 1800.0 | 2700.0 |
| N39 | None | 1980.0 | 2700.0 |
| N40 | None | 2160.0 | 2700.0 |
| N41 | None | 2340.0 | 2700.0 |
| N42 | None | 2520.0 | 2700.0 |
| N43 | None | 2700.0 | 2700.0 |
| N44 | None | 2880.0 | 2700.0 |
| N45 | None | 3060.0 | 2700.0 |
| N46 | None | 3240.0 | 2700.0 |
| N47 | None | 3420.0 | 2700.0 |
| N48 | None | 3600.0 | 2700.0 |
| N49 | None | 3780.0 | 2700.0 |
| N50 | None | 3960.0 | 2700.0 |
| N51 | None | 4140.0 | 2700.0 |
| N52 | None | 4320.0 | 2700.0 |
| N53 | None | 4500.0 | 2700.0 |
| N54 | None | 4680.0 | 2700.0 |
| N55 | None | 4860.0 | 2700.0 |
| P1 | AVDD\_PPFS | -4860.0 | 2520.0 |
| P2 | AVDD\_PPFS | -4680.0 | 2520.0 |
| P3 | - | -4500.0 | 2520.0 |
| P4 | no bump | -4320.0 | 2520.0 |
| P5 | no bump | -4140.0 | 2520.0 |
| P6 | no bump | -3960.0 | 2520.0 |
| P7 | no bump | -3780.0 | 2520.0 |
| P8 | no bump | -3600.0 | 2520.0 |
| P9 | no bump | -3420.0 | 2520.0 |
| P10 | no bump | -3240.0 | 2520.0 |
| P11 | - | -3060.0 | 2520.0 |
| P12 | - | -2880.0 | 2520.0 |
| P13 | - | -2700.0 | 2520.0 |
| P14 | - | -2520.0 | 2520.0 |
| P15 | CLK\_OUT | -2340.0 | 2520.0 |
| P16 | GND\_DIG | -2160.0 | 2520.0 |
| P17 | GND\_DIG | -1980.0 | 2520.0 |
| P18 | None | -1800.0 | 2520.0 |
| P19 | None | -1620.0 | 2520.0 |
| P20 | None | -1440.0 | 2520.0 |
| P21 | None | -1260.0 | 2520.0 |
| P22 | None | -1080.0 | 2520.0 |
| P23 | None | -900.0 | 2520.0 |
| P24 | None | -720.0 | 2520.0 |
| P25 | None | -540.0 | 2520.0 |
| P26 | None | -360.0 | 2520.0 |
| P27 | None | -180.0 | 2520.0 |
| P28 | None | 0.0 | 2520.0 |
| P29 | None | 180.0 | 2520.0 |
| P30 | None | 360.0 | 2520.0 |
| P31 | None | 540.0 | 2520.0 |
| P32 | None | 720.0 | 2520.0 |
| P33 | None | 900.0 | 2520.0 |
| P34 | None | 1080.0 | 2520.0 |
| P35 | None | 1260.0 | 2520.0 |
| P36 | None | 1440.0 | 2520.0 |
| P37 | None | 1620.0 | 2520.0 |
| P38 | None | 1800.0 | 2520.0 |
| P39 | None | 1980.0 | 2520.0 |
| P40 | None | 2160.0 | 2520.0 |
| P41 | None | 2340.0 | 2520.0 |
| P42 | None | 2520.0 | 2520.0 |
| P43 | None | 2700.0 | 2520.0 |
| P44 | None | 2880.0 | 2520.0 |
| P45 | None | 3060.0 | 2520.0 |
| P46 | None | 3240.0 | 2520.0 |
| P47 | None | 3420.0 | 2520.0 |
| P48 | None | 3600.0 | 2520.0 |
| P49 | None | 3780.0 | 2520.0 |
| P50 | None | 3960.0 | 2520.0 |
| P51 | None | 4140.0 | 2520.0 |
| P52 | None | 4320.0 | 2520.0 |
| P53 | None | 4500.0 | 2520.0 |
| P54 | None | 4680.0 | 2520.0 |
| P55 | None | 4860.0 | 2520.0 |
| R1 | GND\_ESD\_PPFS | -4860.0 | 2340.0 |
| R2 | no bump | -4680.0 | 2340.0 |
| R3 | no bump | -4500.0 | 2340.0 |
| R4 | no bump | -4320.0 | 2340.0 |
| R5 | no bump | -4140.0 | 2340.0 |
| R6 | no bump | -3960.0 | 2340.0 |
| R7 | no bump | -3780.0 | 2340.0 |
| R8 | no bump | -3600.0 | 2340.0 |
| R9 | no bump | -3420.0 | 2340.0 |
| R10 | no bump | -3240.0 | 2340.0 |
| R11 | - | -3060.0 | 2340.0 |
| R12 | - | -2880.0 | 2340.0 |
| R13 | - | -2700.0 | 2340.0 |
| R14 | - | -2520.0 | 2340.0 |
| R15 | GND\_ESD\_DIG | -2340.0 | 2340.0 |
| R16 | GLO\_DAT\_3 | -2160.0 | 2340.0 |
| R17 | TCXO | -1980.0 | 2340.0 |
| R18 | None | -1800.0 | 2340.0 |
| R19 | None | -1620.0 | 2340.0 |
| R20 | None | -1440.0 | 2340.0 |
| R21 | None | -1260.0 | 2340.0 |
| R22 | None | -1080.0 | 2340.0 |
| R23 | None | -900.0 | 2340.0 |
| R24 | None | -720.0 | 2340.0 |
| R25 | None | -540.0 | 2340.0 |
| R26 | None | -360.0 | 2340.0 |
| R27 | None | -180.0 | 2340.0 |
| R28 | None | 0.0 | 2340.0 |
| R29 | None | 180.0 | 2340.0 |
| R30 | None | 360.0 | 2340.0 |
| R31 | None | 540.0 | 2340.0 |
| R32 | None | 720.0 | 2340.0 |
| R33 | None | 900.0 | 2340.0 |
| R34 | None | 1080.0 | 2340.0 |
| R35 | None | 1260.0 | 2340.0 |
| R36 | None | 1440.0 | 2340.0 |
| R37 | None | 1620.0 | 2340.0 |
| R38 | None | 1800.0 | 2340.0 |
| R39 | None | 1980.0 | 2340.0 |
| R40 | None | 2160.0 | 2340.0 |
| R41 | None | 2340.0 | 2340.0 |
| R42 | None | 2520.0 | 2340.0 |
| R43 | None | 2700.0 | 2340.0 |
| R44 | None | 2880.0 | 2340.0 |
| R45 | None | 3060.0 | 2340.0 |
| R46 | None | 3240.0 | 2340.0 |
| R47 | None | 3420.0 | 2340.0 |
| R48 | None | 3600.0 | 2340.0 |
| R49 | None | 3780.0 | 2340.0 |
| R50 | None | 3960.0 | 2340.0 |
| R51 | None | 4140.0 | 2340.0 |
| R52 | None | 4320.0 | 2340.0 |
| R53 | None | 4500.0 | 2340.0 |
| R54 | None | 4680.0 | 2340.0 |
| R55 | None | 4860.0 | 2340.0 |
| T1 | GND\_ESD\_PPFS | -4860.0 | 2160.0 |
| T2 | no bump | -4680.0 | 2160.0 |
| T3 | no bump | -4500.0 | 2160.0 |
| T4 | no bump | -4320.0 | 2160.0 |
| T5 | no bump | -4140.0 | 2160.0 |
| T6 | no bump | -3960.0 | 2160.0 |
| T7 | - | -3780.0 | 2160.0 |
| T8 | - | -3600.0 | 2160.0 |
| T9 | - | -3420.0 | 2160.0 |
| T10 | - | -3240.0 | 2160.0 |
| T11 | - | -3060.0 | 2160.0 |
| T12 | - | -2880.0 | 2160.0 |
| T13 | - | -2700.0 | 2160.0 |
| T14 | - | -2520.0 | 2160.0 |
| T15 | AVDD\_DIG\_IO | -2340.0 | 2160.0 |
| T16 | GLO\_DAT\_1 | -2160.0 | 2160.0 |
| T17 | GLO\_DAT\_2 | -1980.0 | 2160.0 |
| T18 | None | -1800.0 | 2160.0 |
| T19 | None | -1620.0 | 2160.0 |
| T20 | None | -1440.0 | 2160.0 |
| T21 | None | -1260.0 | 2160.0 |
| T22 | None | -1080.0 | 2160.0 |
| T23 | None | -900.0 | 2160.0 |
| T24 | None | -720.0 | 2160.0 |
| T25 | None | -540.0 | 2160.0 |
| T26 | None | -360.0 | 2160.0 |
| T27 | None | -180.0 | 2160.0 |
| T28 | None | 0.0 | 2160.0 |
| T29 | None | 180.0 | 2160.0 |
| T30 | None | 360.0 | 2160.0 |
| T31 | None | 540.0 | 2160.0 |
| T32 | None | 720.0 | 2160.0 |
| T33 | None | 900.0 | 2160.0 |
| T34 | None | 1080.0 | 2160.0 |
| T35 | None | 1260.0 | 2160.0 |
| T36 | None | 1440.0 | 2160.0 |
| T37 | None | 1620.0 | 2160.0 |
| T38 | None | 1800.0 | 2160.0 |
| T39 | None | 1980.0 | 2160.0 |
| T40 | None | 2160.0 | 2160.0 |
| T41 | None | 2340.0 | 2160.0 |
| T42 | None | 2520.0 | 2160.0 |
| T43 | None | 2700.0 | 2160.0 |
| T44 | None | 2880.0 | 2160.0 |
| T45 | None | 3060.0 | 2160.0 |
| T46 | None | 3240.0 | 2160.0 |
| T47 | None | 3420.0 | 2160.0 |
| T48 | None | 3600.0 | 2160.0 |
| T49 | None | 3780.0 | 2160.0 |
| T50 | None | 3960.0 | 2160.0 |
| T51 | None | 4140.0 | 2160.0 |
| T52 | None | 4320.0 | 2160.0 |
| T53 | None | 4500.0 | 2160.0 |
| T54 | None | 4680.0 | 2160.0 |
| T55 | None | 4860.0 | 2160.0 |
| U1 | GND\_PPFS | -4860.0 | 1980.0 |
| U2 | GND\_PPFS | -4680.0 | 1980.0 |
| U3 | - | -4500.0 | 1980.0 |
| U4 | no bump | -4320.0 | 1980.0 |
| U5 | no bump | -4140.0 | 1980.0 |
| U6 | no bump | -3960.0 | 1980.0 |
| U7 | - | -3780.0 | 1980.0 |
| U8 | - | -3600.0 | 1980.0 |
| U9 | - | -3420.0 | 1980.0 |
| U10 | - | -3240.0 | 1980.0 |
| U11 | - | -3060.0 | 1980.0 |
| U12 | - | -2880.0 | 1980.0 |
| U13 | - | -2700.0 | 1980.0 |
| U14 | - | -2520.0 | 1980.0 |
| U15 | AVDD\_DIG\_IO | -2340.0 | 1980.0 |
| U16 | GPS\_DAT\_3 | -2160.0 | 1980.0 |
| U17 | GLO\_DAT\_0 | -1980.0 | 1980.0 |
| U18 | None | -1800.0 | 1980.0 |
| U19 | None | -1620.0 | 1980.0 |
| U20 | None | -1440.0 | 1980.0 |
| U21 | None | -1260.0 | 1980.0 |
| U22 | None | -1080.0 | 1980.0 |
| U23 | None | -900.0 | 1980.0 |
| U24 | None | -720.0 | 1980.0 |
| U25 | None | -540.0 | 1980.0 |
| U26 | None | -360.0 | 1980.0 |
| U27 | None | -180.0 | 1980.0 |
| U28 | None | 0.0 | 1980.0 |
| U29 | None | 180.0 | 1980.0 |
| U30 | None | 360.0 | 1980.0 |
| U31 | None | 540.0 | 1980.0 |
| U32 | None | 720.0 | 1980.0 |
| U33 | None | 900.0 | 1980.0 |
| U34 | None | 1080.0 | 1980.0 |
| U35 | None | 1260.0 | 1980.0 |
| U36 | None | 1440.0 | 1980.0 |
| U37 | None | 1620.0 | 1980.0 |
| U38 | None | 1800.0 | 1980.0 |
| U39 | None | 1980.0 | 1980.0 |
| U40 | None | 2160.0 | 1980.0 |
| U41 | None | 2340.0 | 1980.0 |
| U42 | None | 2520.0 | 1980.0 |
| U43 | None | 2700.0 | 1980.0 |
| U44 | None | 2880.0 | 1980.0 |
| U45 | None | 3060.0 | 1980.0 |
| U46 | None | 3240.0 | 1980.0 |
| U47 | None | 3420.0 | 1980.0 |
| U48 | None | 3600.0 | 1980.0 |
| U49 | None | 3780.0 | 1980.0 |
| U50 | None | 3960.0 | 1980.0 |
| U51 | None | 4140.0 | 1980.0 |
| U52 | None | 4320.0 | 1980.0 |
| U53 | None | 4500.0 | 1980.0 |
| U54 | None | 4680.0 | 1980.0 |
| U55 | None | 4860.0 | 1980.0 |
| V1 | - | -4860.0 | 1800.0 |
| V2 | - | -4680.0 | 1800.0 |
| V3 | - | -4500.0 | 1800.0 |
| V4 | no bump | -4320.0 | 1800.0 |
| V5 | no bump | -4140.0 | 1800.0 |
| V6 | no bump | -3960.0 | 1800.0 |
| V7 | - | -3780.0 | 1800.0 |
| V8 | - | -3600.0 | 1800.0 |
| V9 | - | -3420.0 | 1800.0 |
| V10 | - | -3240.0 | 1800.0 |
| V11 | - | -3060.0 | 1800.0 |
| V12 | - | -2880.0 | 1800.0 |
| V13 | - | -2700.0 | 1800.0 |
| V14 | - | -2520.0 | 1800.0 |
| V15 | - | -2340.0 | 1800.0 |
| V16 | GPS\_DAT\_1 | -2160.0 | 1800.0 |
| V17 | GPS\_DAT\_2 | -1980.0 | 1800.0 |
| V18 | None | -1800.0 | 1800.0 |
| V19 | None | -1620.0 | 1800.0 |
| V20 | None | -1440.0 | 1800.0 |
| V21 | None | -1260.0 | 1800.0 |
| V22 | None | -1080.0 | 1800.0 |
| V23 | None | -900.0 | 1800.0 |
| V24 | None | -720.0 | 1800.0 |
| V25 | None | -540.0 | 1800.0 |
| V26 | None | -360.0 | 1800.0 |
| V27 | None | -180.0 | 1800.0 |
| V28 | None | 0.0 | 1800.0 |
| V29 | None | 180.0 | 1800.0 |
| V30 | None | 360.0 | 1800.0 |
| V31 | None | 540.0 | 1800.0 |
| V32 | None | 720.0 | 1800.0 |
| V33 | None | 900.0 | 1800.0 |
| V34 | None | 1080.0 | 1800.0 |
| V35 | None | 1260.0 | 1800.0 |
| V36 | None | 1440.0 | 1800.0 |
| V37 | None | 1620.0 | 1800.0 |
| V38 | None | 1800.0 | 1800.0 |
| V39 | None | 1980.0 | 1800.0 |
| V40 | None | 2160.0 | 1800.0 |
| V41 | None | 2340.0 | 1800.0 |
| V42 | None | 2520.0 | 1800.0 |
| V43 | None | 2700.0 | 1800.0 |
| V44 | None | 2880.0 | 1800.0 |
| V45 | None | 3060.0 | 1800.0 |
| V46 | None | 3240.0 | 1800.0 |
| V47 | None | 3420.0 | 1800.0 |
| V48 | None | 3600.0 | 1800.0 |
| V49 | None | 3780.0 | 1800.0 |
| V50 | None | 3960.0 | 1800.0 |
| V51 | None | 4140.0 | 1800.0 |
| V52 | None | 4320.0 | 1800.0 |
| V53 | None | 4500.0 | 1800.0 |
| V54 | None | 4680.0 | 1800.0 |
| V55 | None | 4860.0 | 1800.0 |
| W1 | - | -4860.0 | 1620.0 |
| W2 | - | -4680.0 | 1620.0 |
| W3 | - | -4500.0 | 1620.0 |
| W4 | no bump | -4320.0 | 1620.0 |
| W5 | no bump | -4140.0 | 1620.0 |
| W6 | no bump | -3960.0 | 1620.0 |
| W7 | - | -3780.0 | 1620.0 |
| W8 | - | -3600.0 | 1620.0 |
| W9 | - | -3420.0 | 1620.0 |
| W10 | - | -3240.0 | 1620.0 |
| W11 | - | -3060.0 | 1620.0 |
| W12 | - | -2880.0 | 1620.0 |
| W13 | - | -2700.0 | 1620.0 |
| W14 | - | -2520.0 | 1620.0 |
| W15 | - | -2340.0 | 1620.0 |
| W16 | MISO | -2160.0 | 1620.0 |
| W17 | GPS\_DAT\_0 | -1980.0 | 1620.0 |
| W18 | None | -1800.0 | 1620.0 |
| W19 | None | -1620.0 | 1620.0 |
| W20 | None | -1440.0 | 1620.0 |
| W21 | None | -1260.0 | 1620.0 |
| W22 | None | -1080.0 | 1620.0 |
| W23 | None | -900.0 | 1620.0 |
| W24 | None | -720.0 | 1620.0 |
| W25 | None | -540.0 | 1620.0 |
| W26 | None | -360.0 | 1620.0 |
| W27 | None | -180.0 | 1620.0 |
| W28 | None | 0.0 | 1620.0 |
| W29 | None | 180.0 | 1620.0 |
| W30 | None | 360.0 | 1620.0 |
| W31 | None | 540.0 | 1620.0 |
| W32 | None | 720.0 | 1620.0 |
| W33 | None | 900.0 | 1620.0 |
| W34 | None | 1080.0 | 1620.0 |
| W35 | None | 1260.0 | 1620.0 |
| W36 | None | 1440.0 | 1620.0 |
| W37 | None | 1620.0 | 1620.0 |
| W38 | None | 1800.0 | 1620.0 |
| W39 | None | 1980.0 | 1620.0 |
| W40 | None | 2160.0 | 1620.0 |
| W41 | None | 2340.0 | 1620.0 |
| W42 | None | 2520.0 | 1620.0 |
| W43 | None | 2700.0 | 1620.0 |
| W44 | None | 2880.0 | 1620.0 |
| W45 | None | 3060.0 | 1620.0 |
| W46 | None | 3240.0 | 1620.0 |
| W47 | None | 3420.0 | 1620.0 |
| W48 | None | 3600.0 | 1620.0 |
| W49 | None | 3780.0 | 1620.0 |
| W50 | None | 3960.0 | 1620.0 |
| W51 | None | 4140.0 | 1620.0 |
| W52 | None | 4320.0 | 1620.0 |
| W53 | None | 4500.0 | 1620.0 |
| W54 | None | 4680.0 | 1620.0 |
| W55 | None | 4860.0 | 1620.0 |
| Y1 | - | -4860.0 | 1440.0 |
| Y2 | - | -4680.0 | 1440.0 |
| Y3 | - | -4500.0 | 1440.0 |
| Y4 | no bump | -4320.0 | 1440.0 |
| Y5 | no bump | -4140.0 | 1440.0 |
| Y6 | no bump | -3960.0 | 1440.0 |
| Y7 | - | -3780.0 | 1440.0 |
| Y8 | no bump | -3600.0 | 1440.0 |
| Y9 | - | -3420.0 | 1440.0 |
| Y10 | - | -3240.0 | 1440.0 |
| Y11 | - | -3060.0 | 1440.0 |
| Y12 | - | -2880.0 | 1440.0 |
| Y13 | - | -2700.0 | 1440.0 |
| Y14 | - | -2520.0 | 1440.0 |
| Y15 | - | -2340.0 | 1440.0 |
| Y16 | SCLK | -2160.0 | 1440.0 |
| Y17 | MOSI | -1980.0 | 1440.0 |
| Y18 | None | -1800.0 | 1440.0 |
| Y19 | None | -1620.0 | 1440.0 |
| Y20 | None | -1440.0 | 1440.0 |
| Y21 | None | -1260.0 | 1440.0 |
| Y22 | None | -1080.0 | 1440.0 |
| Y23 | None | -900.0 | 1440.0 |
| Y24 | None | -720.0 | 1440.0 |
| Y25 | None | -540.0 | 1440.0 |
| Y26 | None | -360.0 | 1440.0 |
| Y27 | None | -180.0 | 1440.0 |
| Y28 | None | 0.0 | 1440.0 |
| Y29 | None | 180.0 | 1440.0 |
| Y30 | None | 360.0 | 1440.0 |
| Y31 | None | 540.0 | 1440.0 |
| Y32 | None | 720.0 | 1440.0 |
| Y33 | None | 900.0 | 1440.0 |
| Y34 | None | 1080.0 | 1440.0 |
| Y35 | None | 1260.0 | 1440.0 |
| Y36 | None | 1440.0 | 1440.0 |
| Y37 | None | 1620.0 | 1440.0 |
| Y38 | None | 1800.0 | 1440.0 |
| Y39 | None | 1980.0 | 1440.0 |
| Y40 | None | 2160.0 | 1440.0 |
| Y41 | None | 2340.0 | 1440.0 |
| Y42 | None | 2520.0 | 1440.0 |
| Y43 | None | 2700.0 | 1440.0 |
| Y44 | None | 2880.0 | 1440.0 |
| Y45 | None | 3060.0 | 1440.0 |
| Y46 | None | 3240.0 | 1440.0 |
| Y47 | None | 3420.0 | 1440.0 |
| Y48 | None | 3600.0 | 1440.0 |
| Y49 | None | 3780.0 | 1440.0 |
| Y50 | None | 3960.0 | 1440.0 |
| Y51 | None | 4140.0 | 1440.0 |
| Y52 | None | 4320.0 | 1440.0 |
| Y53 | None | 4500.0 | 1440.0 |
| Y54 | None | 4680.0 | 1440.0 |
| Y55 | None | 4860.0 | 1440.0 |
| AA1 | - | -4860.0 | 1260.0 |
| AA2 | - | -4680.0 | 1260.0 |
| AA3 | GND\_ESD\_VGAS | -4500.0 | 1260.0 |
| AA4 | GND\_ESD\_VGAS | -4320.0 | 1260.0 |
| AA5 | GND\_ESD\_VGAS | -4140.0 | 1260.0 |
| AA6 | no bump | -3960.0 | 1260.0 |
| AA7 | no bump | -3780.0 | 1260.0 |
| AA8 | no bump | -3600.0 | 1260.0 |
| AA9 | no bump | -3420.0 | 1260.0 |
| AA10 | no bump | -3240.0 | 1260.0 |
| AA11 | AVDD\_VR\_ADC | -3060.0 | 1260.0 |
| AA12 | AVDD\_VR\_ADC | -2880.0 | 1260.0 |
| AA13 | GND\_ESD\_VGAS | -2700.0 | 1260.0 |
| AA14 | - | -2520.0 | 1260.0 |
| AA15 | - | -2340.0 | 1260.0 |
| AA16 | GND\_ESD\_DIG | -2160.0 | 1260.0 |
| AA17 | SCSN | -1980.0 | 1260.0 |
| AA18 | None | -1800.0 | 1260.0 |
| AA19 | None | -1620.0 | 1260.0 |
| AA20 | None | -1440.0 | 1260.0 |
| AA21 | None | -1260.0 | 1260.0 |
| AA22 | None | -1080.0 | 1260.0 |
| AA23 | None | -900.0 | 1260.0 |
| AA24 | None | -720.0 | 1260.0 |
| AA25 | None | -540.0 | 1260.0 |
| AA26 | None | -360.0 | 1260.0 |
| AA27 | None | -180.0 | 1260.0 |
| AA28 | None | 0.0 | 1260.0 |
| AA29 | None | 180.0 | 1260.0 |
| AA30 | None | 360.0 | 1260.0 |
| AA31 | None | 540.0 | 1260.0 |
| AA32 | None | 720.0 | 1260.0 |
| AA33 | None | 900.0 | 1260.0 |
| AA34 | None | 1080.0 | 1260.0 |
| AA35 | None | 1260.0 | 1260.0 |
| AA36 | None | 1440.0 | 1260.0 |
| AA37 | None | 1620.0 | 1260.0 |
| AA38 | None | 1800.0 | 1260.0 |
| AA39 | None | 1980.0 | 1260.0 |
| AA40 | None | 2160.0 | 1260.0 |
| AA41 | None | 2340.0 | 1260.0 |
| AA42 | None | 2520.0 | 1260.0 |
| AA43 | None | 2700.0 | 1260.0 |
| AA44 | None | 2880.0 | 1260.0 |
| AA45 | None | 3060.0 | 1260.0 |
| AA46 | None | 3240.0 | 1260.0 |
| AA47 | None | 3420.0 | 1260.0 |
| AA48 | None | 3600.0 | 1260.0 |
| AA49 | None | 3780.0 | 1260.0 |
| AA50 | None | 3960.0 | 1260.0 |
| AA51 | None | 4140.0 | 1260.0 |
| AA52 | None | 4320.0 | 1260.0 |
| AA53 | None | 4500.0 | 1260.0 |
| AA54 | None | 4680.0 | 1260.0 |
| AA55 | None | 4860.0 | 1260.0 |
| AB1 | - | -4860.0 | 1080.0 |
| AB2 | - | -4680.0 | 1080.0 |
| AB3 | GND\_VGA\_GLO | -4500.0 | 1080.0 |
| AB4 | GND\_VGA\_GLO | -4320.0 | 1080.0 |
| AB5 | AVDD\_GLO | -4140.0 | 1080.0 |
| AB6 | AVDD\_GLO | -3960.0 | 1080.0 |
| AB7 | GND\_ADC\_GLO | -3780.0 | 1080.0 |
| AB8 | CVDD\_ADC\_GLO | -3600.0 | 1080.0 |
| AB9 | VR\_ADC\_OUT | -3420.0 | 1080.0 |
| AB10 | - | -3240.0 | 1080.0 |
| AB11 | GND\_VR\_ADC | -3060.0 | 1080.0 |
| AB12 | AVDD\_CREF | -2880.0 | 1080.0 |
| AB13 | R10K\_1 | -2700.0 | 1080.0 |
| AB14 | GND\_CREF | -2520.0 | 1080.0 |
| AB15 | - | -2340.0 | 1080.0 |
| AB16 | GND\_ESD\_DIG | -2160.0 | 1080.0 |
| AB17 | GND\_ESD\_DIG | -1980.0 | 1080.0 |
| AB18 | None | -1800.0 | 1080.0 |
| AB19 | None | -1620.0 | 1080.0 |
| AB20 | None | -1440.0 | 1080.0 |
| AB21 | None | -1260.0 | 1080.0 |
| AB22 | None | -1080.0 | 1080.0 |
| AB23 | None | -900.0 | 1080.0 |
| AB24 | None | -720.0 | 1080.0 |
| AB25 | None | -540.0 | 1080.0 |
| AB26 | None | -360.0 | 1080.0 |
| AB27 | None | -180.0 | 1080.0 |
| AB28 | None | 0.0 | 1080.0 |
| AB29 | None | 180.0 | 1080.0 |
| AB30 | None | 360.0 | 1080.0 |
| AB31 | None | 540.0 | 1080.0 |
| AB32 | None | 720.0 | 1080.0 |
| AB33 | None | 900.0 | 1080.0 |
| AB34 | None | 1080.0 | 1080.0 |
| AB35 | None | 1260.0 | 1080.0 |
| AB36 | None | 1440.0 | 1080.0 |
| AB37 | None | 1620.0 | 1080.0 |
| AB38 | None | 1800.0 | 1080.0 |
| AB39 | None | 1980.0 | 1080.0 |
| AB40 | None | 2160.0 | 1080.0 |
| AB41 | None | 2340.0 | 1080.0 |
| AB42 | None | 2520.0 | 1080.0 |
| AB43 | None | 2700.0 | 1080.0 |
| AB44 | None | 2880.0 | 1080.0 |
| AB45 | None | 3060.0 | 1080.0 |
| AB46 | None | 3240.0 | 1080.0 |
| AB47 | None | 3420.0 | 1080.0 |
| AB48 | None | 3600.0 | 1080.0 |
| AB49 | None | 3780.0 | 1080.0 |
| AB50 | None | 3960.0 | 1080.0 |
| AB51 | None | 4140.0 | 1080.0 |
| AB52 | None | 4320.0 | 1080.0 |
| AB53 | None | 4500.0 | 1080.0 |
| AB54 | None | 4680.0 | 1080.0 |
| AB55 | None | 4860.0 | 1080.0 |
| AC1 | no bump | -4860.0 | 900.0 |
| AC2 | - | -4680.0 | 900.0 |
| AC3 | GND\_VGA\_GPS | -4500.0 | 900.0 |
| AC4 | GND\_VGA\_GPS | -4320.0 | 900.0 |
| AC5 | AVDD\_GPS | -4140.0 | 900.0 |
| AC6 | AVDD\_GPS | -3960.0 | 900.0 |
| AC7 | GND\_ADC\_GPS | -3780.0 | 900.0 |
| AC8 | CVDD\_ADC\_GPS | -3600.0 | 900.0 |
| AC9 | VR\_ADC\_OUT | -3420.0 | 900.0 |
| AC10 | - | -3240.0 | 900.0 |
| AC11 | GND\_VR\_ADC | -3060.0 | 900.0 |
| AC12 | AVDD\_CREF | -2880.0 | 900.0 |
| AC13 | R10K\_0 | -2700.0 | 900.0 |
| AC14 | GND\_CREF | -2520.0 | 900.0 |
| AC15 | RSTN | -2340.0 | 900.0 |
| AC16 | GND\_ESD\_DIG | -2160.0 | 900.0 |
| AC17 | None | -1980.0 | 900.0 |
| AC18 | None | -1800.0 | 900.0 |
| AC19 | None | -1620.0 | 900.0 |
| AC20 | None | -1440.0 | 900.0 |
| AC21 | None | -1260.0 | 900.0 |
| AC22 | None | -1080.0 | 900.0 |
| AC23 | None | -900.0 | 900.0 |
| AC24 | None | -720.0 | 900.0 |
| AC25 | None | -540.0 | 900.0 |
| AC26 | None | -360.0 | 900.0 |
| AC27 | None | -180.0 | 900.0 |
| AC28 | None | 0.0 | 900.0 |
| AC29 | None | 180.0 | 900.0 |
| AC30 | None | 360.0 | 900.0 |
| AC31 | None | 540.0 | 900.0 |
| AC32 | None | 720.0 | 900.0 |
| AC33 | None | 900.0 | 900.0 |
| AC34 | None | 1080.0 | 900.0 |
| AC35 | None | 1260.0 | 900.0 |
| AC36 | None | 1440.0 | 900.0 |
| AC37 | None | 1620.0 | 900.0 |
| AC38 | None | 1800.0 | 900.0 |
| AC39 | None | 1980.0 | 900.0 |
| AC40 | None | 2160.0 | 900.0 |
| AC41 | None | 2340.0 | 900.0 |
| AC42 | None | 2520.0 | 900.0 |
| AC43 | None | 2700.0 | 900.0 |
| AC44 | None | 2880.0 | 900.0 |
| AC45 | None | 3060.0 | 900.0 |
| AC46 | None | 3240.0 | 900.0 |
| AC47 | None | 3420.0 | 900.0 |
| AC48 | None | 3600.0 | 900.0 |
| AC49 | None | 3780.0 | 900.0 |
| AC50 | None | 3960.0 | 900.0 |
| AC51 | None | 4140.0 | 900.0 |
| AC52 | None | 4320.0 | 900.0 |
| AC53 | None | 4500.0 | 900.0 |
| AC54 | None | 4680.0 | 900.0 |
| AC55 | None | 4860.0 | 900.0 |
| AD1 | None | -4860.0 | 720.0 |
| AD2 | None | -4680.0 | 720.0 |
| AD3 | None | -4500.0 | 720.0 |
| AD4 | None | -4320.0 | 720.0 |
| AD5 | None | -4140.0 | 720.0 |
| AD6 | None | -3960.0 | 720.0 |
| AD7 | None | -3780.0 | 720.0 |
| AD8 | None | -3600.0 | 720.0 |
| AD9 | None | -3420.0 | 720.0 |
| AD10 | None | -3240.0 | 720.0 |
| AD11 | None | -3060.0 | 720.0 |
| AD12 | None | -2880.0 | 720.0 |
| AD13 | None | -2700.0 | 720.0 |
| AD14 | None | -2520.0 | 720.0 |
| AD15 | None | -2340.0 | 720.0 |
| AD16 | None | -2160.0 | 720.0 |
| AD17 | None | -1980.0 | 720.0 |
| AD18 | None | -1800.0 | 720.0 |
| AD19 | None | -1620.0 | 720.0 |
| AD20 | None | -1440.0 | 720.0 |
| AD21 | None | -1260.0 | 720.0 |
| AD22 | None | -1080.0 | 720.0 |
| AD23 | None | -900.0 | 720.0 |
| AD24 | None | -720.0 | 720.0 |
| AD25 | None | -540.0 | 720.0 |
| AD26 | None | -360.0 | 720.0 |
| AD27 | None | -180.0 | 720.0 |
| AD28 | None | 0.0 | 720.0 |
| AD29 | None | 180.0 | 720.0 |
| AD30 | None | 360.0 | 720.0 |
| AD31 | None | 540.0 | 720.0 |
| AD32 | None | 720.0 | 720.0 |
| AD33 | None | 900.0 | 720.0 |
| AD34 | None | 1080.0 | 720.0 |
| AD35 | None | 1260.0 | 720.0 |
| AD36 | None | 1440.0 | 720.0 |
| AD37 | None | 1620.0 | 720.0 |
| AD38 | None | 1800.0 | 720.0 |
| AD39 | None | 1980.0 | 720.0 |
| AD40 | None | 2160.0 | 720.0 |
| AD41 | None | 2340.0 | 720.0 |
| AD42 | None | 2520.0 | 720.0 |
| AD43 | None | 2700.0 | 720.0 |
| AD44 | None | 2880.0 | 720.0 |
| AD45 | None | 3060.0 | 720.0 |
| AD46 | None | 3240.0 | 720.0 |
| AD47 | None | 3420.0 | 720.0 |
| AD48 | None | 3600.0 | 720.0 |
| AD49 | None | 3780.0 | 720.0 |
| AD50 | None | 3960.0 | 720.0 |
| AD51 | None | 4140.0 | 720.0 |
| AD52 | None | 4320.0 | 720.0 |
| AD53 | None | 4500.0 | 720.0 |
| AD54 | None | 4680.0 | 720.0 |
| AD55 | None | 4860.0 | 720.0 |
| AE1 | None | -4860.0 | 540.0 |
| AE2 | None | -4680.0 | 540.0 |
| AE3 | None | -4500.0 | 540.0 |
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| AE12 | None | -2880.0 | 540.0 |
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| AE14 | None | -2520.0 | 540.0 |
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| AE16 | None | -2160.0 | 540.0 |
| AE17 | None | -1980.0 | 540.0 |
| AE18 | None | -1800.0 | 540.0 |
| AE19 | None | -1620.0 | 540.0 |
| AE20 | None | -1440.0 | 540.0 |
| AE21 | None | -1260.0 | 540.0 |
| AE22 | None | -1080.0 | 540.0 |
| AE23 | None | -900.0 | 540.0 |
| AE24 | None | -720.0 | 540.0 |
| AE25 | None | -540.0 | 540.0 |
| AE26 | None | -360.0 | 540.0 |
| AE27 | None | -180.0 | 540.0 |
| AE28 | None | 0.0 | 540.0 |
| AE29 | None | 180.0 | 540.0 |
| AE30 | None | 360.0 | 540.0 |
| AE31 | None | 540.0 | 540.0 |
| AE32 | None | 720.0 | 540.0 |
| AE33 | None | 900.0 | 540.0 |
| AE34 | None | 1080.0 | 540.0 |
| AE35 | None | 1260.0 | 540.0 |
| AE36 | None | 1440.0 | 540.0 |
| AE37 | None | 1620.0 | 540.0 |
| AE38 | None | 1800.0 | 540.0 |
| AE39 | None | 1980.0 | 540.0 |
| AE40 | None | 2160.0 | 540.0 |
| AE41 | None | 2340.0 | 540.0 |
| AE42 | None | 2520.0 | 540.0 |
| AE43 | None | 2700.0 | 540.0 |
| AE44 | None | 2880.0 | 540.0 |
| AE45 | None | 3060.0 | 540.0 |
| AE46 | None | 3240.0 | 540.0 |
| AE47 | None | 3420.0 | 540.0 |
| AE48 | None | 3600.0 | 540.0 |
| AE49 | None | 3780.0 | 540.0 |
| AE50 | None | 3960.0 | 540.0 |
| AE51 | None | 4140.0 | 540.0 |
| AE52 | None | 4320.0 | 540.0 |
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| AE54 | None | 4680.0 | 540.0 |
| AE55 | None | 4860.0 | 540.0 |
| AF1 | None | -4860.0 | 360.0 |
| AF2 | None | -4680.0 | 360.0 |
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| AF7 | None | -3780.0 | 360.0 |
| AF8 | None | -3600.0 | 360.0 |
| AF9 | None | -3420.0 | 360.0 |
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| AF11 | None | -3060.0 | 360.0 |
| AF12 | None | -2880.0 | 360.0 |
| AF13 | None | -2700.0 | 360.0 |
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| AF17 | None | -1980.0 | 360.0 |
| AF18 | None | -1800.0 | 360.0 |
| AF19 | None | -1620.0 | 360.0 |
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| AF21 | None | -1260.0 | 360.0 |
| AF22 | None | -1080.0 | 360.0 |
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| AF25 | None | -540.0 | 360.0 |
| AF26 | None | -360.0 | 360.0 |
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| AF31 | None | 540.0 | 360.0 |
| AF32 | None | 720.0 | 360.0 |
| AF33 | None | 900.0 | 360.0 |
| AF34 | None | 1080.0 | 360.0 |
| AF35 | None | 1260.0 | 360.0 |
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| AF37 | None | 1620.0 | 360.0 |
| AF38 | None | 1800.0 | 360.0 |
| AF39 | None | 1980.0 | 360.0 |
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| AF45 | None | 3060.0 | 360.0 |
| AF46 | None | 3240.0 | 360.0 |
| AF47 | None | 3420.0 | 360.0 |
| AF48 | None | 3600.0 | 360.0 |
| AF49 | None | 3780.0 | 360.0 |
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| AF54 | None | 4680.0 | 360.0 |
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| AG7 | None | -3780.0 | 180.0 |
| AG8 | None | -3600.0 | 180.0 |
| AG9 | None | -3420.0 | 180.0 |
| AG10 | None | -3240.0 | 180.0 |
| AG11 | None | -3060.0 | 180.0 |
| AG12 | None | -2880.0 | 180.0 |
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| AG17 | None | -1980.0 | 180.0 |
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| AG25 | None | -540.0 | 180.0 |
| AG26 | None | -360.0 | 180.0 |
| AG27 | None | -180.0 | 180.0 |
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| AG30 | None | 360.0 | 180.0 |
| AG31 | None | 540.0 | 180.0 |
| AG32 | None | 720.0 | 180.0 |
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| AG37 | None | 1620.0 | 180.0 |
| AG38 | None | 1800.0 | 180.0 |
| AG39 | None | 1980.0 | 180.0 |
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| AG54 | None | 4680.0 | 180.0 |
| AG55 | None | 4860.0 | 180.0 |
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| AH31 | None | 540.0 | 0.0 |
| AH32 | None | 720.0 | 0.0 |
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| AJ8 | None | -3600.0 | -180.0 |
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| AJ25 | None | -540.0 | -180.0 |
| AJ26 | None | -360.0 | -180.0 |
| AJ27 | None | -180.0 | -180.0 |
| AJ28 | None | 0.0 | -180.0 |
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| AJ30 | None | 360.0 | -180.0 |
| AJ31 | None | 540.0 | -180.0 |
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| AK12 | None | -2880.0 | -360.0 |
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| AK22 | None | -1080.0 | -360.0 |
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| AK25 | None | -540.0 | -360.0 |
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| AK35 | None | 1260.0 | -360.0 |
| AK36 | None | 1440.0 | -360.0 |
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| AK39 | None | 1980.0 | -360.0 |
| AK40 | None | 2160.0 | -360.0 |
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| AL3 | None | -4500.0 | -540.0 |
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| AL5 | None | -4140.0 | -540.0 |
| AL6 | None | -3960.0 | -540.0 |
| AL7 | None | -3780.0 | -540.0 |
| AL8 | None | -3600.0 | -540.0 |
| AL9 | None | -3420.0 | -540.0 |
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| AL11 | None | -3060.0 | -540.0 |
| AL12 | None | -2880.0 | -540.0 |
| AL13 | None | -2700.0 | -540.0 |
| AL14 | None | -2520.0 | -540.0 |
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| AL16 | None | -2160.0 | -540.0 |
| AL17 | None | -1980.0 | -540.0 |
| AL18 | None | -1800.0 | -540.0 |
| AL19 | None | -1620.0 | -540.0 |
| AL20 | None | -1440.0 | -540.0 |
| AL21 | None | -1260.0 | -540.0 |
| AL22 | None | -1080.0 | -540.0 |
| AL23 | None | -900.0 | -540.0 |
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| AL25 | None | -540.0 | -540.0 |
| AL26 | None | -360.0 | -540.0 |
| AL27 | None | -180.0 | -540.0 |
| AL28 | None | 0.0 | -540.0 |
| AL29 | None | 180.0 | -540.0 |
| AL30 | None | 360.0 | -540.0 |
| AL31 | None | 540.0 | -540.0 |
| AL32 | None | 720.0 | -540.0 |
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| AL34 | None | 1080.0 | -540.0 |
| AL35 | None | 1260.0 | -540.0 |
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| AL39 | None | 1980.0 | -540.0 |
| AL40 | None | 2160.0 | -540.0 |
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| AL54 | None | 4680.0 | -540.0 |
| AL55 | None | 4860.0 | -540.0 |
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| AM2 | GND\_ESD\_DIG | -4680.0 | -720.0 |
| AM3 | GND\_ESD\_DIG | -4500.0 | -720.0 |
| AM4 | GND\_ESD\_DIG | -4320.0 | -720.0 |
| AM5 | TCXO | -4140.0 | -720.0 |
| AM6 | DFE\_DATA\_ADC\_4 | -3960.0 | -720.0 |
| AM7 | DFE\_DATA\_ADC\_7 | -3780.0 | -720.0 |
| AM8 | DFE\_DATA\_ADC\_10 | -3600.0 | -720.0 |
| AM9 | DFE\_CLK | -3420.0 | -720.0 |
| AM10 | RFFE\_REL | -3240.0 | -720.0 |
| AM11 | SCLK | -3060.0 | -720.0 |
| AM12 | GND\_ESD\_DIG | -2880.0 | -720.0 |
| AM13 | GND\_DIG | -2700.0 | -720.0 |
| AM14 | GND\_DIG | -2520.0 | -720.0 |
| AM15 | GND\_VR\_DIG | -2340.0 | -720.0 |
| AM16 | GND\_VR\_DIG | -2160.0 | -720.0 |
| AM17 | DFE\_FBCLK | -1980.0 | -720.0 |
| AM18 | DFE\_DATA\_DAC\_2 | -1800.0 | -720.0 |
| AM19 | DFE\_DATA\_DAC\_6 | -1620.0 | -720.0 |
| AM20 | GND\_ESD\_DIG | -1440.0 | -720.0 |
| AM21 | GND\_ESD\_DIG | -1260.0 | -720.0 |
| AM22 | no bump | -1080.0 | -720.0 |
| AM23 | None | -900.0 | -720.0 |
| AM24 | None | -720.0 | -720.0 |
| AM25 | None | -540.0 | -720.0 |
| AM26 | None | -360.0 | -720.0 |
| AM27 | None | -180.0 | -720.0 |
| AM28 | None | 0.0 | -720.0 |
| AM29 | None | 180.0 | -720.0 |
| AM30 | None | 360.0 | -720.0 |
| AM31 | None | 540.0 | -720.0 |
| AM32 | None | 720.0 | -720.0 |
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| AM34 | None | 1080.0 | -720.0 |
| AM35 | None | 1260.0 | -720.0 |
| AM36 | None | 1440.0 | -720.0 |
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| AM44 | None | 2880.0 | -720.0 |
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| AM46 | None | 3240.0 | -720.0 |
| AM47 | None | 3420.0 | -720.0 |
| AM48 | None | 3600.0 | -720.0 |
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| AM50 | None | 3960.0 | -720.0 |
| AM51 | None | 4140.0 | -720.0 |
| AM52 | None | 4320.0 | -720.0 |
| AM53 | None | 4500.0 | -720.0 |
| AM54 | None | 4680.0 | -720.0 |
| AM55 | None | 4860.0 | -720.0 |
| AN1 | GND\_VR\_ADC | -4860.0 | -900.0 |
| AN2 | AVDD\_VR\_ADC | -4680.0 | -900.0 |
| AN3 | VR\_ADC\_OUT | -4500.0 | -900.0 |
| AN4 | AVDD\_DIG\_IO | -4320.0 | -900.0 |
| AN5 | DFE\_DATA\_ADC\_1 | -4140.0 | -900.0 |
| AN6 | DFE\_DATA\_ADC\_3 | -3960.0 | -900.0 |
| AN7 | DFE\_DATA\_ADC\_6 | -3780.0 | -900.0 |
| AN8 | DFE\_DATA\_ADC\_9 | -3600.0 | -900.0 |
| AN9 | DFE\_RF\_FRAME | -3420.0 | -900.0 |
| AN10 | RSTN | -3240.0 | -900.0 |
| AN11 | MOSI | -3060.0 | -900.0 |
| AN12 | AVDD\_DIG\_IO | -2880.0 | -900.0 |
| AN13 | DVDD\_DIG | -2700.0 | -900.0 |
| AN14 | DVDD\_DIG | -2520.0 | -900.0 |
| AN15 | AVDD\_VR\_DIG | -2340.0 | -900.0 |
| AN16 | AVDD\_VR\_DIG | -2160.0 | -900.0 |
| AN17 | DFE\_TX\_FRAME | -1980.0 | -900.0 |
| AN18 | DFE\_DATA\_DAC\_3 | -1800.0 | -900.0 |
| AN19 | DFE\_DATA\_DAC\_7 | -1620.0 | -900.0 |
| AN20 | AVDD\_DIG\_IO | -1440.0 | -900.0 |
| AN21 | AVDD\_DIG\_IO | -1260.0 | -900.0 |
| AN22 | GND\_ESD\_DIG | -1080.0 | -900.0 |
| AN23 | None | -900.0 | -900.0 |
| AN24 | None | -720.0 | -900.0 |
| AN25 | None | -540.0 | -900.0 |
| AN26 | None | -360.0 | -900.0 |
| AN27 | None | -180.0 | -900.0 |
| AN28 | None | 0.0 | -900.0 |
| AN29 | None | 180.0 | -900.0 |
| AN30 | None | 360.0 | -900.0 |
| AN31 | None | 540.0 | -900.0 |
| AN32 | None | 720.0 | -900.0 |
| AN33 | None | 900.0 | -900.0 |
| AN34 | None | 1080.0 | -900.0 |
| AN35 | None | 1260.0 | -900.0 |
| AN36 | None | 1440.0 | -900.0 |
| AN37 | None | 1620.0 | -900.0 |
| AN38 | None | 1800.0 | -900.0 |
| AN39 | None | 1980.0 | -900.0 |
| AN40 | None | 2160.0 | -900.0 |
| AN41 | None | 2340.0 | -900.0 |
| AN42 | None | 2520.0 | -900.0 |
| AN43 | None | 2700.0 | -900.0 |
| AN44 | None | 2880.0 | -900.0 |
| AN45 | None | 3060.0 | -900.0 |
| AN46 | None | 3240.0 | -900.0 |
| AN47 | None | 3420.0 | -900.0 |
| AN48 | None | 3600.0 | -900.0 |
| AN49 | None | 3780.0 | -900.0 |
| AN50 | None | 3960.0 | -900.0 |
| AN51 | None | 4140.0 | -900.0 |
| AN52 | None | 4320.0 | -900.0 |
| AN53 | None | 4500.0 | -900.0 |
| AN54 | None | 4680.0 | -900.0 |
| AN55 | None | 4860.0 | -900.0 |
| AP1 | GND\_VR\_ADC | -4860.0 | -1080.0 |
| AP2 | AVDD\_VR\_ADC | -4680.0 | -1080.0 |
| AP3 | VR\_ADC\_OUT | -4500.0 | -1080.0 |
| AP4 | AVDD\_DIG\_IO | -4320.0 | -1080.0 |
| AP5 | DFE\_DATA\_ADC\_0 | -4140.0 | -1080.0 |
| AP6 | DFE\_DATA\_ADC\_2 | -3960.0 | -1080.0 |
| AP7 | DFE\_DATA\_ADC\_5 | -3780.0 | -1080.0 |
| AP8 | DFE\_DATA\_ADC\_8 | -3600.0 | -1080.0 |
| AP9 | DFE\_DATA\_ADC\_11 | -3420.0 | -1080.0 |
| AP10 | SCSN | -3240.0 | -1080.0 |
| AP11 | MISO | -3060.0 | -1080.0 |
| AP12 | AVDD\_DIG\_IO | -2880.0 | -1080.0 |
| AP13 | DVDD\_IO | -2700.0 | -1080.0 |
| AP14 | DVDD\_IO | -2520.0 | -1080.0 |
| AP15 | VR\_DIG\_OUT | -2340.0 | -1080.0 |
| AP16 | VR\_DIG\_OUT | -2160.0 | -1080.0 |
| AP17 | DFE\_DATA\_DAC\_1 | -1980.0 | -1080.0 |
| AP18 | DFE\_DATA\_DAC\_4 | -1800.0 | -1080.0 |
| AP19 | DFE\_DATA\_DAC\_8 | -1620.0 | -1080.0 |
| AP20 | DFE\_DATA\_DAC\_10 | -1440.0 | -1080.0 |
| AP21 | AVDD\_DAC | -1260.0 | -1080.0 |
| AP22 | GND\_DAC | -1080.0 | -1080.0 |
| AP23 | None | -900.0 | -1080.0 |
| AP24 | None | -720.0 | -1080.0 |
| AP25 | None | -540.0 | -1080.0 |
| AP26 | None | -360.0 | -1080.0 |
| AP27 | None | -180.0 | -1080.0 |
| AP28 | None | 0.0 | -1080.0 |
| AP29 | None | 180.0 | -1080.0 |
| AP30 | None | 360.0 | -1080.0 |
| AP31 | None | 540.0 | -1080.0 |
| AP32 | None | 720.0 | -1080.0 |
| AP33 | None | 900.0 | -1080.0 |
| AP34 | None | 1080.0 | -1080.0 |
| AP35 | None | 1260.0 | -1080.0 |
| AP36 | None | 1440.0 | -1080.0 |
| AP37 | None | 1620.0 | -1080.0 |
| AP38 | None | 1800.0 | -1080.0 |
| AP39 | None | 1980.0 | -1080.0 |
| AP40 | None | 2160.0 | -1080.0 |
| AP41 | None | 2340.0 | -1080.0 |
| AP42 | None | 2520.0 | -1080.0 |
| AP43 | None | 2700.0 | -1080.0 |
| AP44 | None | 2880.0 | -1080.0 |
| AP45 | None | 3060.0 | -1080.0 |
| AP46 | None | 3240.0 | -1080.0 |
| AP47 | None | 3420.0 | -1080.0 |
| AP48 | None | 3600.0 | -1080.0 |
| AP49 | None | 3780.0 | -1080.0 |
| AP50 | None | 3960.0 | -1080.0 |
| AP51 | None | 4140.0 | -1080.0 |
| AP52 | None | 4320.0 | -1080.0 |
| AP53 | None | 4500.0 | -1080.0 |
| AP54 | None | 4680.0 | -1080.0 |
| AP55 | None | 4860.0 | -1080.0 |
| AR1 | GND\_ADC | -4860.0 | -1260.0 |
| AR2 | AVDD\_ADC | -4680.0 | -1260.0 |
| AR3 | CVDD\_ADC | -4500.0 | -1260.0 |
| AR4 | - | -4320.0 | -1260.0 |
| AR5 | - | -4140.0 | -1260.0 |
| AR6 | - | -3960.0 | -1260.0 |
| AR7 | - | -3780.0 | -1260.0 |
| AR8 | - | -3600.0 | -1260.0 |
| AR9 | - | -3420.0 | -1260.0 |
| AR10 | - | -3240.0 | -1260.0 |
| AR11 | - | -3060.0 | -1260.0 |
| AR12 | - | -2880.0 | -1260.0 |
| AR13 | - | -2700.0 | -1260.0 |
| AR14 | - | -2520.0 | -1260.0 |
| AR15 | - | -2340.0 | -1260.0 |
| AR16 | - | -2160.0 | -1260.0 |
| AR17 | DFE\_DATA\_DAC\_0 | -1980.0 | -1260.0 |
| AR18 | DFE\_DATA\_DAC\_5 | -1800.0 | -1260.0 |
| AR19 | DFE\_DATA\_DAC\_9 | -1620.0 | -1260.0 |
| AR20 | DFE\_DATA\_DAC\_11 | -1440.0 | -1260.0 |
| AR21 | AVDD\_DAC | -1260.0 | -1260.0 |
| AR22 | GND\_DAC | -1080.0 | -1260.0 |
| AR23 | None | -900.0 | -1260.0 |
| AR24 | None | -720.0 | -1260.0 |
| AR25 | None | -540.0 | -1260.0 |
| AR26 | None | -360.0 | -1260.0 |
| AR27 | None | -180.0 | -1260.0 |
| AR28 | None | 0.0 | -1260.0 |
| AR29 | None | 180.0 | -1260.0 |
| AR30 | None | 360.0 | -1260.0 |
| AR31 | None | 540.0 | -1260.0 |
| AR32 | None | 720.0 | -1260.0 |
| AR33 | None | 900.0 | -1260.0 |
| AR34 | None | 1080.0 | -1260.0 |
| AR35 | None | 1260.0 | -1260.0 |
| AR36 | None | 1440.0 | -1260.0 |
| AR37 | None | 1620.0 | -1260.0 |
| AR38 | None | 1800.0 | -1260.0 |
| AR39 | None | 1980.0 | -1260.0 |
| AR40 | None | 2160.0 | -1260.0 |
| AR41 | None | 2340.0 | -1260.0 |
| AR42 | None | 2520.0 | -1260.0 |
| AR43 | None | 2700.0 | -1260.0 |
| AR44 | None | 2880.0 | -1260.0 |
| AR45 | None | 3060.0 | -1260.0 |
| AR46 | None | 3240.0 | -1260.0 |
| AR47 | None | 3420.0 | -1260.0 |
| AR48 | None | 3600.0 | -1260.0 |
| AR49 | None | 3780.0 | -1260.0 |
| AR50 | None | 3960.0 | -1260.0 |
| AR51 | None | 4140.0 | -1260.0 |
| AR52 | None | 4320.0 | -1260.0 |
| AR53 | None | 4500.0 | -1260.0 |
| AR54 | None | 4680.0 | -1260.0 |
| AR55 | None | 4860.0 | -1260.0 |
| AT1 | GND\_ADC | -4860.0 | -1440.0 |
| AT2 | AVDD\_ADC | -4680.0 | -1440.0 |
| AT3 | CVDD\_ADC | -4500.0 | -1440.0 |
| AT4 | - | -4320.0 | -1440.0 |
| AT5 | - | -4140.0 | -1440.0 |
| AT6 | - | -3960.0 | -1440.0 |
| AT7 | - | -3780.0 | -1440.0 |
| AT8 | - | -3600.0 | -1440.0 |
| AT9 | - | -3420.0 | -1440.0 |
| AT10 | - | -3240.0 | -1440.0 |
| AT11 | - | -3060.0 | -1440.0 |
| AT12 | - | -2880.0 | -1440.0 |
| AT13 | - | -2700.0 | -1440.0 |
| AT14 | - | -2520.0 | -1440.0 |
| AT15 | - | -2340.0 | -1440.0 |
| AT16 | - | -2160.0 | -1440.0 |
| AT17 | - | -1980.0 | -1440.0 |
| AT18 | - | -1800.0 | -1440.0 |
| AT19 | - | -1620.0 | -1440.0 |
| AT20 | - | -1440.0 | -1440.0 |
| AT21 | GND\_ESD\_DIG | -1260.0 | -1440.0 |
| AT22 | GND\_ESD\_DIG | -1080.0 | -1440.0 |
| AT23 | None | -900.0 | -1440.0 |
| AT24 | None | -720.0 | -1440.0 |
| AT25 | None | -540.0 | -1440.0 |
| AT26 | None | -360.0 | -1440.0 |
| AT27 | None | -180.0 | -1440.0 |
| AT28 | None | 0.0 | -1440.0 |
| AT29 | None | 180.0 | -1440.0 |
| AT30 | None | 360.0 | -1440.0 |
| AT31 | None | 540.0 | -1440.0 |
| AT32 | None | 720.0 | -1440.0 |
| AT33 | None | 900.0 | -1440.0 |
| AT34 | None | 1080.0 | -1440.0 |
| AT35 | None | 1260.0 | -1440.0 |
| AT36 | None | 1440.0 | -1440.0 |
| AT37 | None | 1620.0 | -1440.0 |
| AT38 | None | 1800.0 | -1440.0 |
| AT39 | None | 1980.0 | -1440.0 |
| AT40 | None | 2160.0 | -1440.0 |
| AT41 | None | 2340.0 | -1440.0 |
| AT42 | None | 2520.0 | -1440.0 |
| AT43 | None | 2700.0 | -1440.0 |
| AT44 | None | 2880.0 | -1440.0 |
| AT45 | None | 3060.0 | -1440.0 |
| AT46 | None | 3240.0 | -1440.0 |
| AT47 | None | 3420.0 | -1440.0 |
| AT48 | None | 3600.0 | -1440.0 |
| AT49 | None | 3780.0 | -1440.0 |
| AT50 | None | 3960.0 | -1440.0 |
| AT51 | None | 4140.0 | -1440.0 |
| AT52 | None | 4320.0 | -1440.0 |
| AT53 | None | 4500.0 | -1440.0 |
| AT54 | None | 4680.0 | -1440.0 |
| AT55 | None | 4860.0 | -1440.0 |
| AU1 | GND\_ESD\_DIG | -4860.0 | -1620.0 |
| AU2 | REF\_ADC\_OUT | -4680.0 | -1620.0 |
| AU3 | - | -4500.0 | -1620.0 |
| AU4 | - | -4320.0 | -1620.0 |
| AU5 | - | -4140.0 | -1620.0 |
| AU6 | - | -3960.0 | -1620.0 |
| AU7 | - | -3780.0 | -1620.0 |
| AU8 | - | -3600.0 | -1620.0 |
| AU9 | - | -3420.0 | -1620.0 |
| AU10 | - | -3240.0 | -1620.0 |
| AU11 | - | -3060.0 | -1620.0 |
| AU12 | - | -2880.0 | -1620.0 |
| AU13 | - | -2700.0 | -1620.0 |
| AU14 | - | -2520.0 | -1620.0 |
| AU15 | - | -2340.0 | -1620.0 |
| AU16 | - | -2160.0 | -1620.0 |
| AU17 | - | -1980.0 | -1620.0 |
| AU18 | - | -1800.0 | -1620.0 |
| AU19 | - | -1620.0 | -1620.0 |
| AU20 | - | -1440.0 | -1620.0 |
| AU21 | - | -1260.0 | -1620.0 |
| AU22 | - | -1080.0 | -1620.0 |
| AU23 | None | -900.0 | -1620.0 |
| AU24 | None | -720.0 | -1620.0 |
| AU25 | None | -540.0 | -1620.0 |
| AU26 | None | -360.0 | -1620.0 |
| AU27 | None | -180.0 | -1620.0 |
| AU28 | None | 0.0 | -1620.0 |
| AU29 | None | 180.0 | -1620.0 |
| AU30 | None | 360.0 | -1620.0 |
| AU31 | None | 540.0 | -1620.0 |
| AU32 | None | 720.0 | -1620.0 |
| AU33 | None | 900.0 | -1620.0 |
| AU34 | None | 1080.0 | -1620.0 |
| AU35 | None | 1260.0 | -1620.0 |
| AU36 | None | 1440.0 | -1620.0 |
| AU37 | None | 1620.0 | -1620.0 |
| AU38 | None | 1800.0 | -1620.0 |
| AU39 | None | 1980.0 | -1620.0 |
| AU40 | None | 2160.0 | -1620.0 |
| AU41 | None | 2340.0 | -1620.0 |
| AU42 | None | 2520.0 | -1620.0 |
| AU43 | None | 2700.0 | -1620.0 |
| AU44 | None | 2880.0 | -1620.0 |
| AU45 | None | 3060.0 | -1620.0 |
| AU46 | None | 3240.0 | -1620.0 |
| AU47 | None | 3420.0 | -1620.0 |
| AU48 | None | 3600.0 | -1620.0 |
| AU49 | None | 3780.0 | -1620.0 |
| AU50 | None | 3960.0 | -1620.0 |
| AU51 | None | 4140.0 | -1620.0 |
| AU52 | None | 4320.0 | -1620.0 |
| AU53 | None | 4500.0 | -1620.0 |
| AU54 | None | 4680.0 | -1620.0 |
| AU55 | None | 4860.0 | -1620.0 |
| AV1 | GND\_IF | -4860.0 | -1800.0 |
| AV2 | AVDD\_IF | -4680.0 | -1800.0 |
| AV3 | GND\_ESD\_IF | -4500.0 | -1800.0 |
| AV4 | - | -4320.0 | -1800.0 |
| AV5 | - | -4140.0 | -1800.0 |
| AV6 | - | -3960.0 | -1800.0 |
| AV7 | - | -3780.0 | -1800.0 |
| AV8 | - | -3600.0 | -1800.0 |
| AV9 | - | -3420.0 | -1800.0 |
| AV10 | - | -3240.0 | -1800.0 |
| AV11 | - | -3060.0 | -1800.0 |
| AV12 | - | -2880.0 | -1800.0 |
| AV13 | no bump | -2700.0 | -1800.0 |
| AV14 | no bump | -2520.0 | -1800.0 |
| AV15 | no bump | -2340.0 | -1800.0 |
| AV16 | no bump | -2160.0 | -1800.0 |
| AV17 | no bump | -1980.0 | -1800.0 |
| AV18 | no bump | -1800.0 | -1800.0 |
| AV19 | - | -1620.0 | -1800.0 |
| AV20 | - | -1440.0 | -1800.0 |
| AV21 | - | -1260.0 | -1800.0 |
| AV22 | - | -1080.0 | -1800.0 |
| AV23 | None | -900.0 | -1800.0 |
| AV24 | None | -720.0 | -1800.0 |
| AV25 | None | -540.0 | -1800.0 |
| AV26 | None | -360.0 | -1800.0 |
| AV27 | None | -180.0 | -1800.0 |
| AV28 | None | 0.0 | -1800.0 |
| AV29 | None | 180.0 | -1800.0 |
| AV30 | None | 360.0 | -1800.0 |
| AV31 | None | 540.0 | -1800.0 |
| AV32 | None | 720.0 | -1800.0 |
| AV33 | None | 900.0 | -1800.0 |
| AV34 | None | 1080.0 | -1800.0 |
| AV35 | None | 1260.0 | -1800.0 |
| AV36 | None | 1440.0 | -1800.0 |
| AV37 | None | 1620.0 | -1800.0 |
| AV38 | None | 1800.0 | -1800.0 |
| AV39 | None | 1980.0 | -1800.0 |
| AV40 | None | 2160.0 | -1800.0 |
| AV41 | None | 2340.0 | -1800.0 |
| AV42 | None | 2520.0 | -1800.0 |
| AV43 | None | 2700.0 | -1800.0 |
| AV44 | None | 2880.0 | -1800.0 |
| AV45 | None | 3060.0 | -1800.0 |
| AV46 | None | 3240.0 | -1800.0 |
| AV47 | None | 3420.0 | -1800.0 |
| AV48 | None | 3600.0 | -1800.0 |
| AV49 | None | 3780.0 | -1800.0 |
| AV50 | None | 3960.0 | -1800.0 |
| AV51 | None | 4140.0 | -1800.0 |
| AV52 | None | 4320.0 | -1800.0 |
| AV53 | None | 4500.0 | -1800.0 |
| AV54 | None | 4680.0 | -1800.0 |
| AV55 | None | 4860.0 | -1800.0 |
| AW1 | GND\_IF | -4860.0 | -1980.0 |
| AW2 | AVDD\_IF | -4680.0 | -1980.0 |
| AW3 | GND\_ESD\_IF | -4500.0 | -1980.0 |
| AW4 | no bump | -4320.0 | -1980.0 |
| AW5 | no bump | -4140.0 | -1980.0 |
| AW6 | no bump | -3960.0 | -1980.0 |
| AW7 | no bump | -3780.0 | -1980.0 |
| AW8 | - | -3600.0 | -1980.0 |
| AW9 | - | -3420.0 | -1980.0 |
| AW10 | - | -3240.0 | -1980.0 |
| AW11 | - | -3060.0 | -1980.0 |
| AW12 | - | -2880.0 | -1980.0 |
| AW13 | no bump | -2700.0 | -1980.0 |
| AW14 | no bump | -2520.0 | -1980.0 |
| AW15 | no bump | -2340.0 | -1980.0 |
| AW16 | no bump | -2160.0 | -1980.0 |
| AW17 | no bump | -1980.0 | -1980.0 |
| AW18 | no bump | -1800.0 | -1980.0 |
| AW19 | - | -1620.0 | -1980.0 |
| AW20 | - | -1440.0 | -1980.0 |
| AW21 | GND\_ESD\_TX\_LPF | -1260.0 | -1980.0 |
| AW22 | GND\_ESD\_TX\_LPF | -1080.0 | -1980.0 |
| AW23 | None | -900.0 | -1980.0 |
| AW24 | None | -720.0 | -1980.0 |
| AW25 | None | -540.0 | -1980.0 |
| AW26 | None | -360.0 | -1980.0 |
| AW27 | None | -180.0 | -1980.0 |
| AW28 | None | 0.0 | -1980.0 |
| AW29 | None | 180.0 | -1980.0 |
| AW30 | None | 360.0 | -1980.0 |
| AW31 | None | 540.0 | -1980.0 |
| AW32 | None | 720.0 | -1980.0 |
| AW33 | None | 900.0 | -1980.0 |
| AW34 | None | 1080.0 | -1980.0 |
| AW35 | None | 1260.0 | -1980.0 |
| AW36 | None | 1440.0 | -1980.0 |
| AW37 | None | 1620.0 | -1980.0 |
| AW38 | None | 1800.0 | -1980.0 |
| AW39 | None | 1980.0 | -1980.0 |
| AW40 | None | 2160.0 | -1980.0 |
| AW41 | None | 2340.0 | -1980.0 |
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| AW43 | None | 2700.0 | -1980.0 |
| AW44 | None | 2880.0 | -1980.0 |
| AW45 | None | 3060.0 | -1980.0 |
| AW46 | None | 3240.0 | -1980.0 |
| AW47 | None | 3420.0 | -1980.0 |
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| AW49 | None | 3780.0 | -1980.0 |
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| AW51 | None | 4140.0 | -1980.0 |
| AW52 | None | 4320.0 | -1980.0 |
| AW53 | None | 4500.0 | -1980.0 |
| AW54 | None | 4680.0 | -1980.0 |
| AW55 | None | 4860.0 | -1980.0 |
| AY1 | - | -4860.0 | -2160.0 |
| AY2 | - | -4680.0 | -2160.0 |
| AY3 | - | -4500.0 | -2160.0 |
| AY4 | no bump | -4320.0 | -2160.0 |
| AY5 | no bump | -4140.0 | -2160.0 |
| AY6 | no bump | -3960.0 | -2160.0 |
| AY7 | no bump | -3780.0 | -2160.0 |
| AY8 | - | -3600.0 | -2160.0 |
| AY9 | - | -3420.0 | -2160.0 |
| AY10 | - | -3240.0 | -2160.0 |
| AY11 | - | -3060.0 | -2160.0 |
| AY12 | - | -2880.0 | -2160.0 |
| AY13 | no bump | -2700.0 | -2160.0 |
| AY14 | no bump | -2520.0 | -2160.0 |
| AY15 | no bump | -2340.0 | -2160.0 |
| AY16 | no bump | -2160.0 | -2160.0 |
| AY17 | no bump | -1980.0 | -2160.0 |
| AY18 | no bump | -1800.0 | -2160.0 |
| AY19 | - | -1620.0 | -2160.0 |
| AY20 | - | -1440.0 | -2160.0 |
| AY21 | AVDD\_TX\_LPF | -1260.0 | -2160.0 |
| AY22 | GND\_TX\_LPF | -1080.0 | -2160.0 |
| AY23 | None | -900.0 | -2160.0 |
| AY24 | None | -720.0 | -2160.0 |
| AY25 | None | -540.0 | -2160.0 |
| AY26 | None | -360.0 | -2160.0 |
| AY27 | None | -180.0 | -2160.0 |
| AY28 | None | 0.0 | -2160.0 |
| AY29 | None | 180.0 | -2160.0 |
| AY30 | None | 360.0 | -2160.0 |
| AY31 | None | 540.0 | -2160.0 |
| AY32 | None | 720.0 | -2160.0 |
| AY33 | None | 900.0 | -2160.0 |
| AY34 | None | 1080.0 | -2160.0 |
| AY35 | None | 1260.0 | -2160.0 |
| AY36 | None | 1440.0 | -2160.0 |
| AY37 | None | 1620.0 | -2160.0 |
| AY38 | None | 1800.0 | -2160.0 |
| AY39 | None | 1980.0 | -2160.0 |
| AY40 | None | 2160.0 | -2160.0 |
| AY41 | None | 2340.0 | -2160.0 |
| AY42 | None | 2520.0 | -2160.0 |
| AY43 | None | 2700.0 | -2160.0 |
| AY44 | None | 2880.0 | -2160.0 |
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| AY47 | None | 3420.0 | -2160.0 |
| AY48 | None | 3600.0 | -2160.0 |
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| AY54 | None | 4680.0 | -2160.0 |
| AY55 | None | 4860.0 | -2160.0 |
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| BA2 | - | -4680.0 | -2340.0 |
| BA3 | - | -4500.0 | -2340.0 |
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| BA8 | - | -3600.0 | -2340.0 |
| BA9 | - | -3420.0 | -2340.0 |
| BA10 | - | -3240.0 | -2340.0 |
| BA11 | - | -3060.0 | -2340.0 |
| BA12 | - | -2880.0 | -2340.0 |
| BA13 | no bump | -2700.0 | -2340.0 |
| BA14 | no bump | -2520.0 | -2340.0 |
| BA15 | no bump | -2340.0 | -2340.0 |
| BA16 | no bump | -2160.0 | -2340.0 |
| BA17 | no bump | -1980.0 | -2340.0 |
| BA18 | no bump | -1800.0 | -2340.0 |
| BA19 | - | -1620.0 | -2340.0 |
| BA20 | - | -1440.0 | -2340.0 |
| BA21 | AVDD\_TX\_LPF | -1260.0 | -2340.0 |
| BA22 | GND\_TX\_LPF | -1080.0 | -2340.0 |
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| BA25 | None | -540.0 | -2340.0 |
| BA26 | None | -360.0 | -2340.0 |
| BA27 | None | -180.0 | -2340.0 |
| BA28 | None | 0.0 | -2340.0 |
| BA29 | None | 180.0 | -2340.0 |
| BA30 | None | 360.0 | -2340.0 |
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| BA32 | None | 720.0 | -2340.0 |
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| BA36 | None | 1440.0 | -2340.0 |
| BA37 | None | 1620.0 | -2340.0 |
| BA38 | None | 1800.0 | -2340.0 |
| BA39 | None | 1980.0 | -2340.0 |
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| BA41 | None | 2340.0 | -2340.0 |
| BA42 | None | 2520.0 | -2340.0 |
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| BA48 | None | 3600.0 | -2340.0 |
| BA49 | None | 3780.0 | -2340.0 |
| BA50 | None | 3960.0 | -2340.0 |
| BA51 | None | 4140.0 | -2340.0 |
| BA52 | None | 4320.0 | -2340.0 |
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| BA54 | None | 4680.0 | -2340.0 |
| BA55 | None | 4860.0 | -2340.0 |
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| BB2 | AVDD\_IF | -4680.0 | -2520.0 |
| BB3 | GND\_ESD\_IF | -4500.0 | -2520.0 |
| BB4 | no bump | -4320.0 | -2520.0 |
| BB5 | no bump | -4140.0 | -2520.0 |
| BB6 | no bump | -3960.0 | -2520.0 |
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| BB8 | - | -3600.0 | -2520.0 |
| BB9 | - | -3420.0 | -2520.0 |
| BB10 | - | -3240.0 | -2520.0 |
| BB11 | - | -3060.0 | -2520.0 |
| BB12 | - | -2880.0 | -2520.0 |
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| BB14 | no bump | -2520.0 | -2520.0 |
| BB15 | no bump | -2340.0 | -2520.0 |
| BB16 | no bump | -2160.0 | -2520.0 |
| BB17 | no bump | -1980.0 | -2520.0 |
| BB18 | no bump | -1800.0 | -2520.0 |
| BB19 | no bump | -1620.0 | -2520.0 |
| BB20 | no bump | -1440.0 | -2520.0 |
| BB21 | AVDD\_TX\_MIX | -1260.0 | -2520.0 |
| BB22 | GND\_TX\_MIX | -1080.0 | -2520.0 |
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| BB26 | None | -360.0 | -2520.0 |
| BB27 | None | -180.0 | -2520.0 |
| BB28 | None | 0.0 | -2520.0 |
| BB29 | None | 180.0 | -2520.0 |
| BB30 | None | 360.0 | -2520.0 |
| BB31 | None | 540.0 | -2520.0 |
| BB32 | None | 720.0 | -2520.0 |
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| BB34 | None | 1080.0 | -2520.0 |
| BB35 | None | 1260.0 | -2520.0 |
| BB36 | None | 1440.0 | -2520.0 |
| BB37 | None | 1620.0 | -2520.0 |
| BB38 | None | 1800.0 | -2520.0 |
| BB39 | None | 1980.0 | -2520.0 |
| BB40 | None | 2160.0 | -2520.0 |
| BB41 | None | 2340.0 | -2520.0 |
| BB42 | None | 2520.0 | -2520.0 |
| BB43 | None | 2700.0 | -2520.0 |
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| BC2 | AVDD\_IF | -4680.0 | -2700.0 |
| BC3 | GND\_ESD\_IF | -4500.0 | -2700.0 |
| BC4 | no bump | -4320.0 | -2700.0 |
| BC5 | no bump | -4140.0 | -2700.0 |
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| BC8 | - | -3600.0 | -2700.0 |
| BC9 | - | -3420.0 | -2700.0 |
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| BC14 | no bump | -2520.0 | -2700.0 |
| BC15 | no bump | -2340.0 | -2700.0 |
| BC16 | no bump | -2160.0 | -2700.0 |
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| BC18 | no bump | -1800.0 | -2700.0 |
| BC19 | no bump | -1620.0 | -2700.0 |
| BC20 | no bump | -1440.0 | -2700.0 |
| BC21 | AVDD\_TX\_MIX | -1260.0 | -2700.0 |
| BC22 | GND\_TX\_MIX | -1080.0 | -2700.0 |
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| BC24 | None | -720.0 | -2700.0 |
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| BC27 | None | -180.0 | -2700.0 |
| BC28 | None | 0.0 | -2700.0 |
| BC29 | None | 180.0 | -2700.0 |
| BC30 | None | 360.0 | -2700.0 |
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| BC38 | None | 1800.0 | -2700.0 |
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| BC40 | None | 2160.0 | -2700.0 |
| BC41 | None | 2340.0 | -2700.0 |
| BC42 | None | 2520.0 | -2700.0 |
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| BC45 | None | 3060.0 | -2700.0 |
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| BD1 | - | -4860.0 | -2880.0 |
| BD2 | - | -4680.0 | -2880.0 |
| BD3 | - | -4500.0 | -2880.0 |
| BD4 | no bump | -4320.0 | -2880.0 |
| BD5 | no bump | -4140.0 | -2880.0 |
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| BD9 | - | -3420.0 | -2880.0 |
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| BD14 | no bump | -2520.0 | -2880.0 |
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| BD19 | no bump | -1620.0 | -2880.0 |
| BD20 | no bump | -1440.0 | -2880.0 |
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| BD26 | None | -360.0 | -2880.0 |
| BD27 | None | -180.0 | -2880.0 |
| BD28 | None | 0.0 | -2880.0 |
| BD29 | None | 180.0 | -2880.0 |
| BD30 | None | 360.0 | -2880.0 |
| BD31 | None | 540.0 | -2880.0 |
| BD32 | None | 720.0 | -2880.0 |
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| BD37 | None | 1620.0 | -2880.0 |
| BD38 | None | 1800.0 | -2880.0 |
| BD39 | None | 1980.0 | -2880.0 |
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| BD41 | None | 2340.0 | -2880.0 |
| BD42 | None | 2520.0 | -2880.0 |
| BD43 | None | 2700.0 | -2880.0 |
| BD44 | None | 2880.0 | -2880.0 |
| BD45 | None | 3060.0 | -2880.0 |
| BD46 | None | 3240.0 | -2880.0 |
| BD47 | None | 3420.0 | -2880.0 |
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| BD50 | None | 3960.0 | -2880.0 |
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| BD52 | None | 4320.0 | -2880.0 |
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| BE2 | AVDD\_RF | -4680.0 | -3060.0 |
| BE3 | GND\_ESD\_RF | -4500.0 | -3060.0 |
| BE4 | - | -4320.0 | -3060.0 |
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| BE14 | no bump | -2520.0 | -3060.0 |
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| BE27 | None | -180.0 | -3060.0 |
| BE28 | None | 0.0 | -3060.0 |
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| BE43 | None | 2700.0 | -3060.0 |
| BE44 | None | 2880.0 | -3060.0 |
| BE45 | None | 3060.0 | -3060.0 |
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| BE47 | None | 3420.0 | -3060.0 |
| BE48 | None | 3600.0 | -3060.0 |
| BE49 | None | 3780.0 | -3060.0 |
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| BE54 | None | 4680.0 | -3060.0 |
| BE55 | None | 4860.0 | -3060.0 |
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| BF2 | AVDD\_RF | -4680.0 | -3240.0 |
| BF3 | GND\_ESD\_RF | -4500.0 | -3240.0 |
| BF4 | - | -4320.0 | -3240.0 |
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| BF7 | no bump | -3780.0 | -3240.0 |
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| BF11 | no bump | -3060.0 | -3240.0 |
| BF12 | no bump | -2880.0 | -3240.0 |
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| BF14 | no bump | -2520.0 | -3240.0 |
| BF15 | no bump | -2340.0 | -3240.0 |
| BF16 | no bump | -2160.0 | -3240.0 |
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| BF18 | no bump | -1800.0 | -3240.0 |
| BF19 | no bump | -1620.0 | -3240.0 |
| BF20 | no bump | -1440.0 | -3240.0 |
| BF21 | - | -1260.0 | -3240.0 |
| BF22 | - | -1080.0 | -3240.0 |
| BF23 | None | -900.0 | -3240.0 |
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| BF25 | None | -540.0 | -3240.0 |
| BF26 | None | -360.0 | -3240.0 |
| BF27 | None | -180.0 | -3240.0 |
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| BF31 | None | 540.0 | -3240.0 |
| BF32 | None | 720.0 | -3240.0 |
| BF33 | None | 900.0 | -3240.0 |
| BF34 | None | 1080.0 | -3240.0 |
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| BF36 | None | 1440.0 | -3240.0 |
| BF37 | None | 1620.0 | -3240.0 |
| BF38 | None | 1800.0 | -3240.0 |
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| BF42 | None | 2520.0 | -3240.0 |
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| BF54 | None | 4680.0 | -3240.0 |
| BF55 | None | 4860.0 | -3240.0 |
| BG1 | GND\_RF | -4860.0 | -3420.0 |
| BG2 | GND\_RF | -4680.0 | -3420.0 |
| BG3 | - | -4500.0 | -3420.0 |
| BG4 | - | -4320.0 | -3420.0 |
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| BG7 | - | -3780.0 | -3420.0 |
| BG8 | - | -3600.0 | -3420.0 |
| BG9 | - | -3420.0 | -3420.0 |
| BG10 | no bump | -3240.0 | -3420.0 |
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| BG15 | no bump | -2340.0 | -3420.0 |
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| BG17 | no bump | -1980.0 | -3420.0 |
| BG18 | no bump | -1800.0 | -3420.0 |
| BG19 | no bump | -1620.0 | -3420.0 |
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| BG21 | - | -1260.0 | -3420.0 |
| BG22 | - | -1080.0 | -3420.0 |
| BG23 | None | -900.0 | -3420.0 |
| BG24 | None | -720.0 | -3420.0 |
| BG25 | None | -540.0 | -3420.0 |
| BG26 | None | -360.0 | -3420.0 |
| BG27 | None | -180.0 | -3420.0 |
| BG28 | None | 0.0 | -3420.0 |
| BG29 | None | 180.0 | -3420.0 |
| BG30 | None | 360.0 | -3420.0 |
| BG31 | None | 540.0 | -3420.0 |
| BG32 | None | 720.0 | -3420.0 |
| BG33 | None | 900.0 | -3420.0 |
| BG34 | None | 1080.0 | -3420.0 |
| BG35 | None | 1260.0 | -3420.0 |
| BG36 | None | 1440.0 | -3420.0 |
| BG37 | None | 1620.0 | -3420.0 |
| BG38 | None | 1800.0 | -3420.0 |
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| BG45 | None | 3060.0 | -3420.0 |
| BG46 | None | 3240.0 | -3420.0 |
| BG47 | None | 3420.0 | -3420.0 |
| BG48 | None | 3600.0 | -3420.0 |
| BG49 | None | 3780.0 | -3420.0 |
| BG50 | None | 3960.0 | -3420.0 |
| BG51 | None | 4140.0 | -3420.0 |
| BG52 | None | 4320.0 | -3420.0 |
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| BG55 | None | 4860.0 | -3420.0 |
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| BH2 | RF\_IN | -4680.0 | -3600.0 |
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| BH4 | no bump | -4320.0 | -3600.0 |
| BH5 | no bump | -4140.0 | -3600.0 |
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| BH7 | - | -3780.0 | -3600.0 |
| BH8 | - | -3600.0 | -3600.0 |
| BH9 | - | -3420.0 | -3600.0 |
| BH10 | no bump | -3240.0 | -3600.0 |
| BH11 | no bump | -3060.0 | -3600.0 |
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| BH15 | no bump | -2340.0 | -3600.0 |
| BH16 | no bump | -2160.0 | -3600.0 |
| BH17 | no bump | -1980.0 | -3600.0 |
| BH18 | no bump | -1800.0 | -3600.0 |
| BH19 | no bump | -1620.0 | -3600.0 |
| BH20 | no bump | -1440.0 | -3600.0 |
| BH21 | GND\_ESD\_PA | -1260.0 | -3600.0 |
| BH22 | GND\_ESD\_PA | -1080.0 | -3600.0 |
| BH23 | None | -900.0 | -3600.0 |
| BH24 | None | -720.0 | -3600.0 |
| BH25 | None | -540.0 | -3600.0 |
| BH26 | None | -360.0 | -3600.0 |
| BH27 | None | -180.0 | -3600.0 |
| BH28 | None | 0.0 | -3600.0 |
| BH29 | None | 180.0 | -3600.0 |
| BH30 | None | 360.0 | -3600.0 |
| BH31 | None | 540.0 | -3600.0 |
| BH32 | None | 720.0 | -3600.0 |
| BH33 | None | 900.0 | -3600.0 |
| BH34 | None | 1080.0 | -3600.0 |
| BH35 | None | 1260.0 | -3600.0 |
| BH36 | None | 1440.0 | -3600.0 |
| BH37 | None | 1620.0 | -3600.0 |
| BH38 | None | 1800.0 | -3600.0 |
| BH39 | None | 1980.0 | -3600.0 |
| BH40 | None | 2160.0 | -3600.0 |
| BH41 | None | 2340.0 | -3600.0 |
| BH42 | None | 2520.0 | -3600.0 |
| BH43 | None | 2700.0 | -3600.0 |
| BH44 | None | 2880.0 | -3600.0 |
| BH45 | None | 3060.0 | -3600.0 |
| BH46 | None | 3240.0 | -3600.0 |
| BH47 | None | 3420.0 | -3600.0 |
| BH48 | None | 3600.0 | -3600.0 |
| BH49 | None | 3780.0 | -3600.0 |
| BH50 | None | 3960.0 | -3600.0 |
| BH51 | None | 4140.0 | -3600.0 |
| BH52 | None | 4320.0 | -3600.0 |
| BH53 | None | 4500.0 | -3600.0 |
| BH54 | None | 4680.0 | -3600.0 |
| BH55 | None | 4860.0 | -3600.0 |
| BJ1 | GND\_RF | -4860.0 | -3780.0 |
| BJ2 | GND\_RF | -4680.0 | -3780.0 |
| BJ3 | GND\_ESD\_RF | -4500.0 | -3780.0 |
| BJ4 | - | -4320.0 | -3780.0 |
| BJ5 | no bump | -4140.0 | -3780.0 |
| BJ6 | no bump | -3960.0 | -3780.0 |
| BJ7 | - | -3780.0 | -3780.0 |
| BJ8 | - | -3600.0 | -3780.0 |
| BJ9 | - | -3420.0 | -3780.0 |
| BJ10 | - | -3240.0 | -3780.0 |
| BJ11 | no bump | -3060.0 | -3780.0 |
| BJ12 | no bump | -2880.0 | -3780.0 |
| BJ13 | no bump | -2700.0 | -3780.0 |
| BJ14 | no bump | -2520.0 | -3780.0 |
| BJ15 | no bump | -2340.0 | -3780.0 |
| BJ16 | no bump | -2160.0 | -3780.0 |
| BJ17 | no bump | -1980.0 | -3780.0 |
| BJ18 | no bump | -1800.0 | -3780.0 |
| BJ19 | no bump | -1620.0 | -3780.0 |
| BJ20 | no bump | -1440.0 | -3780.0 |
| BJ21 | AVDD\_PA | -1260.0 | -3780.0 |
| BJ22 | GND\_PA | -1080.0 | -3780.0 |
| BJ23 | None | -900.0 | -3780.0 |
| BJ24 | None | -720.0 | -3780.0 |
| BJ25 | None | -540.0 | -3780.0 |
| BJ26 | None | -360.0 | -3780.0 |
| BJ27 | None | -180.0 | -3780.0 |
| BJ28 | None | 0.0 | -3780.0 |
| BJ29 | None | 180.0 | -3780.0 |
| BJ30 | None | 360.0 | -3780.0 |
| BJ31 | None | 540.0 | -3780.0 |
| BJ32 | None | 720.0 | -3780.0 |
| BJ33 | None | 900.0 | -3780.0 |
| BJ34 | None | 1080.0 | -3780.0 |
| BJ35 | None | 1260.0 | -3780.0 |
| BJ36 | None | 1440.0 | -3780.0 |
| BJ37 | None | 1620.0 | -3780.0 |
| BJ38 | None | 1800.0 | -3780.0 |
| BJ39 | None | 1980.0 | -3780.0 |
| BJ40 | None | 2160.0 | -3780.0 |
| BJ41 | None | 2340.0 | -3780.0 |
| BJ42 | None | 2520.0 | -3780.0 |
| BJ43 | None | 2700.0 | -3780.0 |
| BJ44 | None | 2880.0 | -3780.0 |
| BJ45 | None | 3060.0 | -3780.0 |
| BJ46 | None | 3240.0 | -3780.0 |
| BJ47 | None | 3420.0 | -3780.0 |
| BJ48 | None | 3600.0 | -3780.0 |
| BJ49 | None | 3780.0 | -3780.0 |
| BJ50 | None | 3960.0 | -3780.0 |
| BJ51 | None | 4140.0 | -3780.0 |
| BJ52 | None | 4320.0 | -3780.0 |
| BJ53 | None | 4500.0 | -3780.0 |
| BJ54 | None | 4680.0 | -3780.0 |
| BJ55 | None | 4860.0 | -3780.0 |
| BK1 | AVDD\_RF | -4860.0 | -3960.0 |
| BK2 | AVDD\_RF | -4680.0 | -3960.0 |
| BK3 | GND\_ESD\_RF | -4500.0 | -3960.0 |
| BK4 | - | -4320.0 | -3960.0 |
| BK5 | no bump | -4140.0 | -3960.0 |
| BK6 | no bump | -3960.0 | -3960.0 |
| BK7 | - | -3780.0 | -3960.0 |
| BK8 | - | -3600.0 | -3960.0 |
| BK9 | - | -3420.0 | -3960.0 |
| BK10 | - | -3240.0 | -3960.0 |
| BK11 | no bump | -3060.0 | -3960.0 |
| BK12 | no bump | -2880.0 | -3960.0 |
| BK13 | no bump | -2700.0 | -3960.0 |
| BK14 | no bump | -2520.0 | -3960.0 |
| BK15 | no bump | -2340.0 | -3960.0 |
| BK16 | no bump | -2160.0 | -3960.0 |
| BK17 | no bump | -1980.0 | -3960.0 |
| BK18 | no bump | -1800.0 | -3960.0 |
| BK19 | no bump | -1620.0 | -3960.0 |
| BK20 | no bump | -1440.0 | -3960.0 |
| BK21 | AVDD\_PA | -1260.0 | -3960.0 |
| BK22 | GND\_PA | -1080.0 | -3960.0 |
| BK23 | None | -900.0 | -3960.0 |
| BK24 | None | -720.0 | -3960.0 |
| BK25 | None | -540.0 | -3960.0 |
| BK26 | None | -360.0 | -3960.0 |
| BK27 | None | -180.0 | -3960.0 |
| BK28 | None | 0.0 | -3960.0 |
| BK29 | None | 180.0 | -3960.0 |
| BK30 | None | 360.0 | -3960.0 |
| BK31 | None | 540.0 | -3960.0 |
| BK32 | None | 720.0 | -3960.0 |
| BK33 | None | 900.0 | -3960.0 |
| BK34 | None | 1080.0 | -3960.0 |
| BK35 | None | 1260.0 | -3960.0 |
| BK36 | None | 1440.0 | -3960.0 |
| BK37 | None | 1620.0 | -3960.0 |
| BK38 | None | 1800.0 | -3960.0 |
| BK39 | None | 1980.0 | -3960.0 |
| BK40 | None | 2160.0 | -3960.0 |
| BK41 | None | 2340.0 | -3960.0 |
| BK42 | None | 2520.0 | -3960.0 |
| BK43 | None | 2700.0 | -3960.0 |
| BK44 | None | 2880.0 | -3960.0 |
| BK45 | None | 3060.0 | -3960.0 |
| BK46 | None | 3240.0 | -3960.0 |
| BK47 | None | 3420.0 | -3960.0 |
| BK48 | None | 3600.0 | -3960.0 |
| BK49 | None | 3780.0 | -3960.0 |
| BK50 | None | 3960.0 | -3960.0 |
| BK51 | None | 4140.0 | -3960.0 |
| BK52 | None | 4320.0 | -3960.0 |
| BK53 | None | 4500.0 | -3960.0 |
| BK54 | None | 4680.0 | -3960.0 |
| BK55 | None | 4860.0 | -3960.0 |
| BL1 | AVDD\_CREF | -4860.0 | -4140.0 |
| BL2 | AVDD\_CREF | -4680.0 | -4140.0 |
| BL3 | - | -4500.0 | -4140.0 |
| BL4 | - | -4320.0 | -4140.0 |
| BL5 | - | -4140.0 | -4140.0 |
| BL6 | - | -3960.0 | -4140.0 |
| BL7 | - | -3780.0 | -4140.0 |
| BL8 | - | -3600.0 | -4140.0 |
| BL9 | - | -3420.0 | -4140.0 |
| BL10 | - | -3240.0 | -4140.0 |
| BL11 | - | -3060.0 | -4140.0 |
| BL12 | - | -2880.0 | -4140.0 |
| BL13 | - | -2700.0 | -4140.0 |
| BL14 | no bump | -2520.0 | -4140.0 |
| BL15 | no bump | -2340.0 | -4140.0 |
| BL16 | no bump | -2160.0 | -4140.0 |
| BL17 | no bump | -1980.0 | -4140.0 |
| BL18 | no bump | -1800.0 | -4140.0 |
| BL19 | no bump | -1620.0 | -4140.0 |
| BL20 | no bump | -1440.0 | -4140.0 |
| BL21 | AVDD\_PA | -1260.0 | -4140.0 |
| BL22 | GND\_PA | -1080.0 | -4140.0 |
| BL23 | None | -900.0 | -4140.0 |
| BL24 | None | -720.0 | -4140.0 |
| BL25 | None | -540.0 | -4140.0 |
| BL26 | None | -360.0 | -4140.0 |
| BL27 | None | -180.0 | -4140.0 |
| BL28 | None | 0.0 | -4140.0 |
| BL29 | None | 180.0 | -4140.0 |
| BL30 | None | 360.0 | -4140.0 |
| BL31 | None | 540.0 | -4140.0 |
| BL32 | None | 720.0 | -4140.0 |
| BL33 | None | 900.0 | -4140.0 |
| BL34 | None | 1080.0 | -4140.0 |
| BL35 | None | 1260.0 | -4140.0 |
| BL36 | None | 1440.0 | -4140.0 |
| BL37 | None | 1620.0 | -4140.0 |
| BL38 | None | 1800.0 | -4140.0 |
| BL39 | None | 1980.0 | -4140.0 |
| BL40 | None | 2160.0 | -4140.0 |
| BL41 | None | 2340.0 | -4140.0 |
| BL42 | None | 2520.0 | -4140.0 |
| BL43 | None | 2700.0 | -4140.0 |
| BL44 | None | 2880.0 | -4140.0 |
| BL45 | None | 3060.0 | -4140.0 |
| BL46 | None | 3240.0 | -4140.0 |
| BL47 | None | 3420.0 | -4140.0 |
| BL48 | None | 3600.0 | -4140.0 |
| BL49 | None | 3780.0 | -4140.0 |
| BL50 | None | 3960.0 | -4140.0 |
| BL51 | None | 4140.0 | -4140.0 |
| BL52 | None | 4320.0 | -4140.0 |
| BL53 | None | 4500.0 | -4140.0 |
| BL54 | None | 4680.0 | -4140.0 |
| BL55 | None | 4860.0 | -4140.0 |
| BM1 | GND\_CREF | -4860.0 | -4320.0 |
| BM2 | R10K | -4680.0 | -4320.0 |
| BM3 | - | -4500.0 | -4320.0 |
| BM4 | - | -4320.0 | -4320.0 |
| BM5 | - | -4140.0 | -4320.0 |
| BM6 | - | -3960.0 | -4320.0 |
| BM7 | - | -3780.0 | -4320.0 |
| BM8 | - | -3600.0 | -4320.0 |
| BM9 | - | -3420.0 | -4320.0 |
| BM10 | - | -3240.0 | -4320.0 |
| BM11 | - | -3060.0 | -4320.0 |
| BM12 | - | -2880.0 | -4320.0 |
| BM13 | - | -2700.0 | -4320.0 |
| BM14 | no bump | -2520.0 | -4320.0 |
| BM15 | no bump | -2340.0 | -4320.0 |
| BM16 | no bump | -2160.0 | -4320.0 |
| BM17 | no bump | -1980.0 | -4320.0 |
| BM18 | no bump | -1800.0 | -4320.0 |
| BM19 | no bump | -1620.0 | -4320.0 |
| BM20 | no bump | -1440.0 | -4320.0 |
| BM21 | GND\_ESD\_PA | -1260.0 | -4320.0 |
| BM22 | GND\_ESD\_PA | -1080.0 | -4320.0 |
| BM23 | None | -900.0 | -4320.0 |
| BM24 | None | -720.0 | -4320.0 |
| BM25 | None | -540.0 | -4320.0 |
| BM26 | None | -360.0 | -4320.0 |
| BM27 | None | -180.0 | -4320.0 |
| BM28 | None | 0.0 | -4320.0 |
| BM29 | None | 180.0 | -4320.0 |
| BM30 | None | 360.0 | -4320.0 |
| BM31 | None | 540.0 | -4320.0 |
| BM32 | None | 720.0 | -4320.0 |
| BM33 | None | 900.0 | -4320.0 |
| BM34 | None | 1080.0 | -4320.0 |
| BM35 | None | 1260.0 | -4320.0 |
| BM36 | None | 1440.0 | -4320.0 |
| BM37 | None | 1620.0 | -4320.0 |
| BM38 | None | 1800.0 | -4320.0 |
| BM39 | None | 1980.0 | -4320.0 |
| BM40 | None | 2160.0 | -4320.0 |
| BM41 | None | 2340.0 | -4320.0 |
| BM42 | None | 2520.0 | -4320.0 |
| BM43 | None | 2700.0 | -4320.0 |
| BM44 | None | 2880.0 | -4320.0 |
| BM45 | None | 3060.0 | -4320.0 |
| BM46 | None | 3240.0 | -4320.0 |
| BM47 | None | 3420.0 | -4320.0 |
| BM48 | None | 3600.0 | -4320.0 |
| BM49 | None | 3780.0 | -4320.0 |
| BM50 | None | 3960.0 | -4320.0 |
| BM51 | None | 4140.0 | -4320.0 |
| BM52 | None | 4320.0 | -4320.0 |
| BM53 | None | 4500.0 | -4320.0 |
| BM54 | None | 4680.0 | -4320.0 |
| BM55 | None | 4860.0 | -4320.0 |
| BN1 | GND\_CREF | -4860.0 | -4500.0 |
| BN2 | R10K\_FB | -4680.0 | -4500.0 |
| BN3 | - | -4500.0 | -4500.0 |
| BN4 | AVDD\_CP | -4320.0 | -4500.0 |
| BN5 | AVDD\_CP | -4140.0 | -4500.0 |
| BN6 | AVDD\_PLL | -3960.0 | -4500.0 |
| BN7 | AVDD\_PLL | -3780.0 | -4500.0 |
| BN8 | FLT\_OUT | -3600.0 | -4500.0 |
| BN9 | AVDD\_VR\_PLL | -3420.0 | -4500.0 |
| BN10 | VR\_PLL\_OUT | -3240.0 | -4500.0 |
| BN11 | CVDD\_PLL | -3060.0 | -4500.0 |
| BN12 | CVDD\_QVCO | -2880.0 | -4500.0 |
| BN13 | - | -2700.0 | -4500.0 |
| BN14 | no bump | -2520.0 | -4500.0 |
| BN15 | no bump | -2340.0 | -4500.0 |
| BN16 | no bump | -2160.0 | -4500.0 |
| BN17 | no bump | -1980.0 | -4500.0 |
| BN18 | no bump | -1800.0 | -4500.0 |
| BN19 | no bump | -1620.0 | -4500.0 |
| BN20 | no bump | -1440.0 | -4500.0 |
| BN21 | GND\_ESD\_PA | -1260.0 | -4500.0 |
| BN22 | GND\_ESD\_PA | -1080.0 | -4500.0 |
| BN23 | None | -900.0 | -4500.0 |
| BN24 | None | -720.0 | -4500.0 |
| BN25 | None | -540.0 | -4500.0 |
| BN26 | None | -360.0 | -4500.0 |
| BN27 | None | -180.0 | -4500.0 |
| BN28 | None | 0.0 | -4500.0 |
| BN29 | None | 180.0 | -4500.0 |
| BN30 | None | 360.0 | -4500.0 |
| BN31 | None | 540.0 | -4500.0 |
| BN32 | None | 720.0 | -4500.0 |
| BN33 | None | 900.0 | -4500.0 |
| BN34 | None | 1080.0 | -4500.0 |
| BN35 | None | 1260.0 | -4500.0 |
| BN36 | None | 1440.0 | -4500.0 |
| BN37 | None | 1620.0 | -4500.0 |
| BN38 | None | 1800.0 | -4500.0 |
| BN39 | None | 1980.0 | -4500.0 |
| BN40 | None | 2160.0 | -4500.0 |
| BN41 | None | 2340.0 | -4500.0 |
| BN42 | None | 2520.0 | -4500.0 |
| BN43 | None | 2700.0 | -4500.0 |
| BN44 | None | 2880.0 | -4500.0 |
| BN45 | None | 3060.0 | -4500.0 |
| BN46 | None | 3240.0 | -4500.0 |
| BN47 | None | 3420.0 | -4500.0 |
| BN48 | None | 3600.0 | -4500.0 |
| BN49 | None | 3780.0 | -4500.0 |
| BN50 | None | 3960.0 | -4500.0 |
| BN51 | None | 4140.0 | -4500.0 |
| BN52 | None | 4320.0 | -4500.0 |
| BN53 | None | 4500.0 | -4500.0 |
| BN54 | None | 4680.0 | -4500.0 |
| BN55 | None | 4860.0 | -4500.0 |
| BP1 | GND\_ESD\_CREF | -4860.0 | -4680.0 |
| BP2 | GND\_ESD\_CREF | -4680.0 | -4680.0 |
| BP3 | - | -4500.0 | -4680.0 |
| BP4 | GND\_CP | -4320.0 | -4680.0 |
| BP5 | GND\_CP | -4140.0 | -4680.0 |
| BP6 | GND\_PLL | -3960.0 | -4680.0 |
| BP7 | GND\_PLL | -3780.0 | -4680.0 |
| BP8 | FLT\_IN | -3600.0 | -4680.0 |
| BP9 | AVDD\_VR\_PLL | -3420.0 | -4680.0 |
| BP10 | VR\_PLL\_OUT | -3240.0 | -4680.0 |
| BP11 | GND\_PLL | -3060.0 | -4680.0 |
| BP12 | GND\_VCO | -2880.0 | -4680.0 |
| BP13 | GND\_ESD\_PA | -2700.0 | -4680.0 |
| BP14 | AVDD\_PA | -2520.0 | -4680.0 |
| BP15 | AVDD\_PA | -2340.0 | -4680.0 |
| BP16 | AVDD\_PA | -2160.0 | -4680.0 |
| BP17 | OUTP\_PA | -1980.0 | -4680.0 |
| BP18 | OUTN\_PA | -1800.0 | -4680.0 |
| BP19 | GND\_ESD\_PA | -1620.0 | -4680.0 |
| BP20 | GND\_ESD\_PA | -1440.0 | -4680.0 |
| BP21 | GND\_ESD\_PA | -1260.0 | -4680.0 |
| BP22 | GND\_ESD\_PA | -1080.0 | -4680.0 |
| BP23 | None | -900.0 | -4680.0 |
| BP24 | None | -720.0 | -4680.0 |
| BP25 | None | -540.0 | -4680.0 |
| BP26 | None | -360.0 | -4680.0 |
| BP27 | None | -180.0 | -4680.0 |
| BP28 | None | 0.0 | -4680.0 |
| BP29 | None | 180.0 | -4680.0 |
| BP30 | None | 360.0 | -4680.0 |
| BP31 | None | 540.0 | -4680.0 |
| BP32 | None | 720.0 | -4680.0 |
| BP33 | None | 900.0 | -4680.0 |
| BP34 | None | 1080.0 | -4680.0 |
| BP35 | None | 1260.0 | -4680.0 |
| BP36 | None | 1440.0 | -4680.0 |
| BP37 | None | 1620.0 | -4680.0 |
| BP38 | None | 1800.0 | -4680.0 |
| BP39 | None | 1980.0 | -4680.0 |
| BP40 | None | 2160.0 | -4680.0 |
| BP41 | None | 2340.0 | -4680.0 |
| BP42 | None | 2520.0 | -4680.0 |
| BP43 | None | 2700.0 | -4680.0 |
| BP44 | None | 2880.0 | -4680.0 |
| BP45 | None | 3060.0 | -4680.0 |
| BP46 | None | 3240.0 | -4680.0 |
| BP47 | None | 3420.0 | -4680.0 |
| BP48 | None | 3600.0 | -4680.0 |
| BP49 | None | 3780.0 | -4680.0 |
| BP50 | None | 3960.0 | -4680.0 |
| BP51 | None | 4140.0 | -4680.0 |
| BP52 | None | 4320.0 | -4680.0 |
| BP53 | None | 4500.0 | -4680.0 |
| BP54 | None | 4680.0 | -4680.0 |
| BP55 | None | 4860.0 | -4680.0 |
| BR1 | no bump | -4860.0 | -4860.0 |
| BR2 | - | -4680.0 | -4860.0 |
| BR3 | - | -4500.0 | -4860.0 |
| BR4 | GND\_ESD\_PLL | -4320.0 | -4860.0 |
| BR5 | GND\_ESD\_PLL | -4140.0 | -4860.0 |
| BR6 | GND\_ESD\_PLL | -3960.0 | -4860.0 |
| BR7 | GND\_ESD\_PLL | -3780.0 | -4860.0 |
| BR8 | GND\_ESD\_PLL | -3600.0 | -4860.0 |
| BR9 | GND\_VR\_PLL | -3420.0 | -4860.0 |
| BR10 | GND\_VR\_PLL | -3240.0 | -4860.0 |
| BR11 | GND\_ESD\_PLL | -3060.0 | -4860.0 |
| BR12 | GND\_ESD\_PLL | -2880.0 | -4860.0 |
| BR13 | GND\_ESD\_PA | -2700.0 | -4860.0 |
| BR14 | GND\_PA | -2520.0 | -4860.0 |
| BR15 | GND\_PA | -2340.0 | -4860.0 |
| BR16 | GND\_PA | -2160.0 | -4860.0 |
| BR17 | OUTP\_PA | -1980.0 | -4860.0 |
| BR18 | OUTN\_PA | -1800.0 | -4860.0 |
| BR19 | GND\_ESD\_PA | -1620.0 | -4860.0 |
| BR20 | GND\_ESD\_PA | -1440.0 | -4860.0 |
| BR21 | GND\_ESD\_PA | -1260.0 | -4860.0 |
| BR22 | no bump | -1080.0 | -4860.0 |
| BR23 | None | -900.0 | -4860.0 |
| BR24 | None | -720.0 | -4860.0 |
| BR25 | None | -540.0 | -4860.0 |
| BR26 | None | -360.0 | -4860.0 |
| BR27 | None | -180.0 | -4860.0 |
| BR28 | None | 0.0 | -4860.0 |
| BR29 | None | 180.0 | -4860.0 |
| BR30 | None | 360.0 | -4860.0 |
| BR31 | None | 540.0 | -4860.0 |
| BR32 | None | 720.0 | -4860.0 |
| BR33 | None | 900.0 | -4860.0 |
| BR34 | None | 1080.0 | -4860.0 |
| BR35 | None | 1260.0 | -4860.0 |
| BR36 | None | 1440.0 | -4860.0 |
| BR37 | None | 1620.0 | -4860.0 |
| BR38 | None | 1800.0 | -4860.0 |
| BR39 | None | 1980.0 | -4860.0 |
| BR40 | None | 2160.0 | -4860.0 |
| BR41 | None | 2340.0 | -4860.0 |
| BR42 | None | 2520.0 | -4860.0 |
| BR43 | None | 2700.0 | -4860.0 |
| BR44 | None | 2880.0 | -4860.0 |
| BR45 | None | 3060.0 | -4860.0 |
| BR46 | None | 3240.0 | -4860.0 |
| BR47 | None | 3420.0 | -4860.0 |
| BR48 | None | 3600.0 | -4860.0 |
| BR49 | None | 3780.0 | -4860.0 |
| BR50 | None | 3960.0 | -4860.0 |
| BR51 | None | 4140.0 | -4860.0 |
| BR52 | None | 4320.0 | -4860.0 |
| BR53 | None | 4500.0 | -4860.0 |
| BR54 | None | 4680.0 | -4860.0 |
| BR55 | None | 4860.0 | -4860.0 |