


| Bill of Materials | | |
|-------------------|-----------------|---|
| Part Number: | SC1905 - DB3400 |  |
| Revision: | A | |
| Date: | 11/13/2018 | |

Notes: DO NOT INSTALL COMPONENTS WITH NO LOAD OR NL.
Part substitution is not allowed when the corresponding cell includes "No".
All part substitutions must be reported to Maxim Integrated.

| Designator | Description | Comment | Manufacturer 1 | Manufacturer Part Number 1 | Quantity | Part Substitution Allowed? |
|--|---|-------------------------------------|----------------------------------|----------------------------|----------|----------------------------|
| C1 | 1uF 0603 ceramic capacitor | 1uF | Murata Electronics North America | GRM188R61A105KA61D | 1 | |
| C2, C6, C30 | 2.2uF 0603 | 2.2uF | Murata | GRM188R71A225KE15J | 3 | |
| C3, C4, C8, C9, C12, C13, C14, C25, C27, C29, C31, C32, C33, C34, C35 | 1000pF 0402 | 1000pF | Murata | GRM1555C1H102JA01D | 15 | |
| C10, C11 | 10pF 0402 | 10pF | Murata | GJM1555C1H100FB01D | 2 | |
| C15, C22, C45, C46, C47, C48, L7, R2, R9, R11, R13, R15, R21, R22, R23, R43, R45 | 10pF 0402, Generic Capacitor, NO LOAD RESISTOR 0402, Resistor Generic, SMT Inductor | NO LOAD | Murata | | 17 | |
| C17, C18, C20 | 0.3pF 0402 | 0.3pF | Murata Electronics North America | GJM1555C1HR30BB01D | 3 | No |
| C26, C28, C36 | 15pF 0402 | 15pF | Murata | GJM1555C1H150FB01D | 3 | |
| C51 | 0.2pF 0402 | 0.2pF | Murata Electronics North America | GJM1555C1HR20BB01D | 1 | No |
| C52 | 0.9pF 0402 | 0.9pF | Murata Electronics North America | GJM1555C1HR90BB01D | 1 | No |
| DC1 | AVX 0603 Coupler LGA Termination | Coupling: 5dB @ 3.5GHz | AVX | CP0603A0902CNTR | 1 | |
| DC2 | AVX 0603 Coupler LGA Termination | Coupling: 7dB @ 3.5GHz | AVX | CP0603A0902HNTR | 1 | |
| FT1, FT2 | Bead | Bead | Murata | BLM18AG121SN1D | 2 | No |
| FT3 | Bead 0402 470 ohm | Bead | Murata | BLM15BD471SN1D | 1 | No |
| L2, L3 | 1.5nH | 1.5nH | Taiyo Yuden | HK10051N5S-T | 2 | No |
| L5, L6 | 2.2nH | 2.2nH | Taiyo Yuden | HK10052N2S-T | 2 | No |
| P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47 | Ports of RDB Daughterboards | PORT 1-M | | | 47 | |
| PCB | DB3400_RevB | Printed Circuit Board (DB3400_RevB) | | DB3400_RevB | 1 | |
| R1 | 10k Ohm 0402 | 10k | Yageo | RC0402FR-0710KL | 1 | |
| R8, R14, R17, R25, R26, R44, R102 | 0 Ohm 0402 | 0 Ohm | Yageo | RC0402JR-070RL | 7 | |
| R10, R16 | 49.9 Ohm 0402 | 49.9 Ohm | KOA Speer | RK73H1ELTP49R9F | 2 | |
| R12 | 12.4k Ohm 0402 | 12.4k 1% | Panasonic Electronic Components | ERJ-2RKF1242X | 1 | |
| R22 | NO LOAD RESISTOR 0201 | NO LOAD | | | 1 | |
| R24 | 0 Ohm 0201 | 0 Ohm | Yageo | RC0201JR-070RL | 1 | |
| T1, T2, T3 | Anaren 3100 - 5000 MHz 50Ohm UnBal - 100 Dif Balun | BAL 50 - 100 | Anaren | BD3150N50100AHF | 3 | No |
| U1 | SC1905: Adaptive RF Power Amplifier Linearizer | SC1905 | Maxim | SC1905 | 1 | No |
| U2 | Anaren Delay Line 2ns | 2ns delay line | Anaren | XDL15-2-020S | 1 | No |
| Y1 | Crystal 20MHz 278-20.0M-20-W | 278-20.0M-20-W | Oscilent | 278-20.0M-20-W | 1 | |