


# Bill of Materials

Part Number:	SC1894 - DB500A	
Revision:	2.0	
Date:	7/29/2014	

## 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	Comment	Description	Quantity	Manufacturer 1	Manufacturer Part Number 1	Part Substitution Allowed?
C1	1uF	1uF 0603 ceramic capacitor	1	Murata Electronics North America	GRM188R61A105KA61D	
C2, C6, C30	2.2uF	2.2uF 0603	3	Murata	GRM188R71A225KE15J	
C3, C4, C8, C9, C12, C13, C14, C25, C27, C29, C31, C32, C33, C35	1000pF	1000pF 0402	14	Murata	GRM1555C1H102JA01D	
C10, C11	10pF	10pF 0402	2	Murata	GJM1555C1H100FB01D	
C15, C45, C46, C47, C52, C53, L7, R2, R9, R11, R13, R15, R21, R23, R24, R25, R27, R95, R96, R98, R99, R100, R101, R103, R104, R105	NO LOAD	10pF 0402, 0402 Cap No Load, Generic Capacitor, NO LOAD RESISTOR 0402, Resistor Generic, SMT Inductor	26	Murata	GJM1555C1H100FB01D	
C17	1.0pF	1.0pF 0402	1	Murata Electronics North America	GJM1555C1H1R0BB01J	No
C18	1.5pF	1.5pF 0402	1	Murata	GJM1555C1H1R5BB01D	No
C19, C23	0.9pF	0.9pF 0402	2	Murata Electronics North America	GJM1555C1HR90BB01D	No
C20	0.1pF	0.1pF 0402	1	Murata Electronics North America	GJM1555C1HR10BB01D	No
C21	0.4pF	0.4pF 0402	1	Murata Electronics North America	GJM1555C1HR40BB01D	No
C26, C28, C36, C38, C39, C40, C41, C42, C43	100pF	100pF 0402 Murata Capacitor	9	Murata	GRM1555C1H101JZ01D	
C34	1nF	1000pF 0402	1	Murata	GRM1555C1H102JA01D	
CP1, CP2	10dB Coupler	Mini Circuits Coupler 5 - 1000 MHz	2	Mini-Circuits	DBTC-10-13+	No
FT1, FT2	Bead	Bead	2	Murata	BLM18AG121SN1D	No
FT3	Bead	Bead 0402 470 ohm	1	Murata	BLM15BD471SN1D	No
L2, L3	22nH	22nH	2	Taiyo Yuden	HK100522NJ-T	No
L5, L6, L8, L9	12nH	12nH	4	Taiyo Yuden	HK100512NJ-T	No
L10, L11	4.7nH	4.7nH	2	Taiyo Yuden	HK10054N7S-T	No
L12, L13	15nH	15nH	2	Taiyo Yuden	HK100515NJ-T	No
L14, L15	18nH	18nH	2	Taiyo Yuden	HK100518NJ-T	No
PCB1	RDB3.1_R3	Printed Circuit Board (RDB3.1_R3)	1		RDB3.1_R3	
R1	10k	10k Ohm 0402	1	Yageo	RC0402FR-0710KL	
R8, R14, R17, R26, R97, R102	0 Ohm	0 Ohm 0402	6	Yageo	RC0402JR-070RL	
R12	12.4k 1%	12.4k Ohm 0402	1	Panasonic Electronic Components	ERJ-2RKF1242X	
R22	0 Ohm	0 Ohm 0201	1	Yageo	RC0201JR-070RL	
T1, T2, T3	BAL 50 - 200	Murata Balun 50 - 870 MHz 50 - 200	3	Murata	DXP18BN5014T	No
U2	DL246	Kyocera Delay Line DL246 (Not recommended for new design)	1	Kyocera	DL246	ONLY Anaren 2 XDL15-2-020S or 1 XDL15-3-030S
U5	SC1894	SC1894: Adaptive RF Power Amplifier Linearizer	1	Maxim Integrated	SC1894A-00C13	
Y1	278-20.0M-20-W	Crystal 20MHz 278-20.0M-20-W	1	Oscilent	278-20.0M-20-W	