


Bill of Materials

Part Number:	SC1894 - DB900A	
Revision:	1.0	
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, C16, C40, C45, C46, C47, C52, L7, R2, R9, R11, R18, R19, R21, R23, R25, R27, R95, R96, R98, R99, R100, R101, R103, R104, R105, R106	NO LOAD	0.9pF 0402, 10pF 0402, 0402 Cap No Load, Generic Capacitor, NO LOAD RESISTOR 0402, Resistor Generic, SMT Inductor	27	Murata, Murata Electronics North America	GJM1555C1H100FB01D, GJM1555C1HR90BB01D	
C17	2.0pF	2.0pF 0402	1	Murata	GJM1555C1H2R0BB01D	
C18	2.2pF	2.2pF 0402	1	Murata	GJM1555C1H2R2BB01D	No
C19	0.4pF	0.4pF 0402	1	Murata	GJM1555C1HR40BB01D	No
C20	1.0pF	1.0pF 0402	1	Murata Electronics North America	GJM1555C1H1R0BB01J	
C21, C53	0.2pF	0.2pF 0402	2	Murata Electronics North America	GJM1555C1HR20BB01D	No
C23	0.7pF	0.7pF 0402	1	Murata Electronics North America	GJM1555C1HR70BB01D	
C26, C28, C36	15pF	15pF 0402	3	Murata	GJM1555C1H150FB01D	No
C34	1nF	1000pF 0402	1	Murata	GRM1555C1H102JA01D	
DC1	10dB Coupler	Anaren 700 - 1000 MHz 0805 10dB Coupler	1	Anaren	DC0710J5010AHF	No
DC2	6dB Coupler	Mini Circuits Coupler	1	Mini-Circuits	BDCN-7-25+	No
FT1, FT2	Bead	Bead	2	Murata	BLM18AG121SN1D	No
FT3	Bead	Bead 0402 470 ohm	1	Murata	BLM15BD471SN1D	No
L2, L3, L8, L9, L10, L11	22nH	22nH	6	Taiyo Yuden	HK100522NJ-T	No
L5, L6, L12, L13, L14, L15	10nH	10nH	6	Taiyo Yuden	HK100510NJ-T	No
PCB1	RDB3.5_REV3	Printed Circuit Board (RDB3.5 REV3)	1		RDB3.5_REV3	
R1	10k	10k Ohm 0402	1	Yageo	RC0402FR-0710KL	
R8, R17, R26, R97, R102	0 Ohm	0 Ohm 0402	5	Yageo	RC0402JR-070RL	
R12	12.4k 1%	12.4k Ohm 0402	1	Panasonic Electronic Components	ERJ-2RKF1242X	
R16, R28	49.9 Ohm	49.9 Ohm 0402	2	KOA Speer	RK73H1ELTP49R9F	
R22, R24	0 Ohm	0 Ohm 0201	2	Yageo	RC0201JR-070RL	
T1, T2	BAL 50 - 100	Anaren 800 - 1000 MHz 50Ohm UnBal - 100 Dif Balun	2	Anaren	BD0810J50100A00	No
T3	BAL 50 - 200	Anaren 800 - 1000 MHz 50Ohm UnBal - 200 Dif Balun	1	Anaren	BD0810J50200A00	No
U1	SC1894	SC1894: Adaptive RF Power Amplifier Linearizer	1	Maxim Integrated	SC1894A-00C13	
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
Y1	278-20.0M-20-W	Crystal 20MHz 278-20.0M-20-W	1	Oscilent	278-20.0M-20-W	