


Bill of Materials

Part Number:	SC1905 - DB2400	
Revision:	A	
Date:	7/13/2021	

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	1	Murata Electronics North America	GRM188R61A105KA61D	Yes
C2, C6, C30	2.2uF	2.2uF 0603	3	Murata	GRM188R71A225KE15J	Yes
C3, C4, C8, C9, C12, C13, C14, C25, C27, C29, C31, C32, C33, C34, C35	1000pF	1000pF 0402	15	Murata	GRM1555C1H102JA01D	Yes
C10, C11	10pF	10pF 0402	2	Murata	GJM1555C1H100FB01D	Yes
C15, C16, C40, C45, C46, C47, C53, L7, R2, R9, R11, R21, R23, R25, R27, R104, R106	NO LOAD	0.9pF 0402, 10pF 0402, 0402 Cap No Load, Generic Capacitor, NO LOAD RESISTOR 0402, Resistor Generic, SMT Inductor	17	Murata, Murata Electronics North America	GJM1555C1H100FB01D, GJM1555C1HR90BB01D	N/A
C17	1.1pF	1.1pF 0402	1	Murata	GJM1555C1H1R1BB01D	No
C18	1.3pF	1.3pF 0402	1	Murata	GJM1555C1H1R3BB01D	No
C19	0.4pF	0.4pF 0402	1	Murata	GJM1555C1HR40BB01D	No
C20	0.9pF	0.9pF 0402	1	Murata Electronics North America	GJM1555C1HR90BB01D	No
C21	0.3pF	0.3pF 0402	1	Murata Electronics North America	GJM1555C1HR30BB01D	No
C23	0.5pF	0.5pF 0402	1	Murata Electronics North America	GJM1555C1HR50BB01D	No
C26, C28, C36	15pF	15pF 0402	3	Murata	GJM1555C1H150FB01D	Yes
C52	2.2pF	2.2pF 0402	1	Murata	GJM1555C1H2R2BB01D	No
DC1	10dB Coupler	Anaren 2300 - 3700 MHz 0805 10dB Coupler	1	Anaren	DC2337J5010AHF	No
DC2	6dB Coupler	Mini Circuits Directional Coupler	1	Mini-Circuits	BDCN-7-25+	No
FT1, FT2	Bead	Bead 0603 120 ohm	2	Murata	BLM18AG121SN1D	No
FT3	Bead	Bead 0402 470 ohm	1	Murata	BLM15BD471SN1D	No
L2, L3, L12, L13, L14, L15	2.7nH	2.7nH	6	Taiyo Yuden	HK10052N7S-T	No
L5, L6, L8, L9	1.5nH	1.5nH	4	Taiyo Yuden	HK10051N5S-T	No
L10, L11	3.3nH	3.3nH	2	Taiyo Yuden	HK10053N3S-T	No
PCB	DB2400_RevA	Printed Circuit Board	1		DB2400_RevA	No
R1	10k	10k Ohm 0402	1	Yageo	RC0402FR-0710KL	Yes
R8, R17, R26, R97, R102	0 Ohm	0 Ohm 0402	5	Yageo	RC0402JR-070RL	Yes
R12	12.4k 1%	12.4k Ohm 0402	1	Panasonic Electronic Components	ERJ-2RKF1242X	Yes
R16, R28	49.9 Ohm	49.9 Ohm 0402	2	KOA Speer	RK73H1ETTP49R9F	Yes
R22	0 Ohm	0 Ohm 0201	1	Yageo	RC0201JR-070RL	Yes
R24	NO LOAD	NO LOAD RESISTOR 0201	1			N/A
T1, T2, T3	BAL 50 - 100	Anaren 2000 - 4000 MHz 50Ohm UnBal - 100 Dif Balun	3	Anaren	BD2040J50100A00	No
U1	SC1905	SC1905: Adaptive RF Power Amplifier Linearizer	1	Maxim Integrated	SC1905	No
U2	2ns delay line	Anaren Delay Line 2ns	1	Anaren	XDL15-2-020S	No
Y1	278-20.0M-20-W	Crystal 20MHz 278-20.0M-20-W	1	Oscilent	278-20.0M-20-W	No