

P/N:

Revision:

Description:

Revised:

EFR32xG1x\_IPD\_868MHz\_REF\_DES (BRD9023A)

A00

EFR32xG1x 2.4 GHz / 868 MHz 13 dBm Radio Board with IPD

Thursday, August 06, 2020

Item	Quantity	Reference	Value	Manufacturer	Manufacturers Part Number	Description	Tolerance	Rating	Technology	Not Mounted
1	1	AT1	INVERTED_F							
2	1	C1	2P0	Murata	GRM1555C1H2R0WA01D	CAP CER COG 2pF 50V +-0.05pF	±0.05P	50V	COG	
3	1	C2	1P0	Murata	GRM1555C1H1R0WA01D		±0.05P	50V	COG	
4	2	C8,C10	56p	Murata	GRM1555C1H560JA01J		±5%		COG	
5	1	C102	100P			CAP CER COG 100pF 50V 5%		5% 50V	COG	
6	2	C103,C107	10P			CAP CER NPO 10pF 50V 5%		5% 50V	COG	
7	1	C106	220N			CAP CER X7R 220nF 16V 10%		10% 16V	X7R	
8	2	C110,C112	10U			CAP CER X5R 10uF 6.3V 20%		20% 6.3V	X5R	
9	3	C111,C114,C117	1U			CAP CER X5R 1uF 25V 10%		10% 25V	X5R	
10	1	C113	10N			CAP CER X7R 10nF 16V 10%		10% 16V	X7R	
11	1	C115	4U7			CAP CER X5R 4.7uF 6.3V 10% (For EFi		10% 6.3V	X5R	
12	6	C116,C124,C200,C201,C203,C207	100N			CAP CER X7R 100nF 16V 10%		10% 16V	X7R	
13	1	C205	10U					10% 10V	X5R	NM
14	1	IPD1	IPD	Johanson Technology Murata	0868BM15G0027 LFD21868MMF5E233					
15	1	L1	1N8	Murata	LQP15MN1N8W02D	INDUCTOR 1.8nH 280mA +-0.05nH	±0.05N			
16	1	L2	3N0	Murata	LQP15MN3N0W02D		±0.05N			
17	1	L100	4U7	Murata	LQH3NPN4R7MM0L	INDUCTOR POWER 4.7uH 1.25A 20%				
18	1	L101	CBF102WB	Würth Electronics	74279266	FERRITE BEAD 1000R 200mA				
19	2	L102,L103	BLM18AG601SN1	Murata	BLM18AG601SN1D					
20	1	PCB1	PCB9023A		PCB9023A Rev. A00					
21	1	P1	SMA	TE Connectivity	5-1814832-1	CONN SOCKET SMA STR DIE CAST				
22	1	P2	U.FL	Hirose	U.FL-R-SMT-1					
23	2	P200,P201	SOCKET_2X20_1.27MM_	Samtec	SFC-120-T2-L-D-A-K-TR	CONN SOCKET STRIP 1.27mm				
24	1	RP200	100R	ROHM	MNRO4M0APJ101	RES ARRAY 100R 5% CONVEX				
25	5	R1,R201,R203,R205,R211	0R			RES 0R Imax 2A JUMPER				
26	4	R2,R204,R206,R210	0R							NM
27	1	R100	1R			RES 1R 1/16W 1% 200ppm				
28	1	R103	330K			RES 330K 1/16W 1% 100ppm				
29	1	R200	10K			RES 10K 1/16W 1% 100ppm				
30	1	SH100	RF_SHIELD_FRAME_BMI-	Laird Technologies	BMI-S-203-F					NM
31	1	SH101	RF_SHIELD_COVER_BMI-	Laird Technologies	BMI-S-203-C					NM
32	19	TPJ1,TPJ2,TPJ3,TPJ4,TPJ5,TPJ6,TPJ7,TPJ8,TPJ9,TPJ10,TPJ11,TPJ	TPJ_SMD							
33	1	TP1	RF_TEST_POINT							
34	1	U1	EFR32XG1xXxx3Fxxx(x)G	Silicon Labs	EFR32XG1xXxx3Fxxx(x)GM48-XR					
35	1	U100	MX25R8035F	Macronix	MX25R8035FBDILO	IC SERIAL FLASH 8Mb				
36	1	U200	24AA024	Microchip	24AA024T-I/MNY	IC EEPROM 2KBIT SERIAL				
37	1	X1	38.400 MHz	KDS	DSX211SH 1ZZNAE38400AB0A					
38	1	X2	32.768kHz	Micro Crystal AG	CM8V-T1A, 32768Hz, 12.5pF, +/- 20ppm					