

P/N:	EFR32xG1x_DISC_REF_DES										
Revision:	A00										
Description:	EFR32FG14 Discrete Balun 610MHz 20 dBm Reference Design										
Revised:	Friday, March 03, 2023										
Item	Quantity	Reference	Value	Manufacturer	Manufacturers Part Number	Description	Tolerance	Rating	Technology	Not Mounted	
1	1	AT1	INVERTED_F								
2	1	C1	NC							NM	
3	2	C3,C4	1P6	Murata	GRM0335C1H1R6BA01		±0.1P		C0G		
4	1	C5	270P	Murata	GRM0335C1E271GA01						
5	1	C6	7P0	Murata	GRM0335C1H7R0BA01						
6	1	C8	3P6	Murata	GRM0335C1H3R6BA01		±0.1P		C0G		
7	2	C10,C12	4P3	Murata	GRM0335C1H4R3BA01		±0.1P		C0G		
8	1	C11	7P5	Murata	GRM0335C1H7R5BA01		±0.1P		C0G		
9	1	C13	NC							NM	
10	1	C14	3P0	Murata	GRM0335C1H3R0BA01		±0.1pF				
11	1	C102	100P			CAP CER C0G 100pF 50V 5%	5% 50V		C0G		
12	2	C103,C107	10P			CAP CER NP0 10pF 50V 5%	5% 50V		C0G		
13	1	C106	220N			CAP CER X7R 220nF 16V 10%	10% 16V		X7R		
14	2	C110,C112	10U			CAP CER X5R 10uF 6.3V 20%	20% 6.3V		X5R		
15	3	C111,C114,C117	1U			CAP CER X5R 1uF 25V 10%	10% 25V		X5R		
16	1	C113	10N			CAP CER X7R 10nF 16V 10%	10% 16V		X7R		
17	1	C115	4U7			CAP CER X5R 4.7uF 6.3V 10%	10% 6.3V		X5R		
18	6	C116,C124,C200,C201,C203,C207	100N			CAP CER X7R 100nF 16V 10%	10% 16V		X7R		
19	1	C205	10U				10% 10V		X5R	NM	
20	1	L1	NC							NM	
21	1	L2	270P	Murata	GRM0335C1E271GA01						
22	1	L3	39N	Murata	LQP03HQ39NH02	INDUCTOR RF 39nH 150mA	±3%				
23	2	L4	270N	Murata	LQW15CNR27J10D	INDUCTOR RF 180nH 420mA 1GHz 5%	±5%				
24	2	L5,L6	6N2	Murata	LQP03HQ6N2H02	INDUCTOR RF 6.2nH 400mA	±3%				
25	3	L7,L8,L9	15N	Murata	LQP03HQ15NH02	INDUCTOR RF 15nH 300mA	±3%				
26	1	L100	4U7	Murata	LQH3NPN4R7MM0L	INDUCTOR POWER 4.7uH 1.25A 20%					
27	1	L101	CBF102WB	Würth Electronics	74279266	FERRITE BEAD 1000R 200mA					
28	2	L102,L103	BLM18AG601SN1	Murata	BLM18AG601SN1D						
29	1	PCB1	PCB4259A		PCB4259A Rev. A00						
30	1	P1	SMA	TE Connectivity	5-1814832-1	CONN SOCKET SMA STR DIE CAST					
31	1	P2	U.FL	Hirose	U.FL-R-SMT-1						
32	2	P200,P201	SOCKET_2X20_1.27MM	Samtec	SFC-120-T2-L-D-A-K-TR	CONN SOCKET STRIP 1.27mm					
33	1	RP200	100R	ROHM	MNR04M0APJ101	RES ARRAY 100R 5% CONVEX					
34	5	R1,R201,R203,R205,R211	0R			RES 0R I _{max} 2A JUMPER					
35	4	R2,R204,R206,R210	0R							NM	
36	1	R100	1R			RES 1R 1/16W 1% 200ppm					
37	1	R103	330K			RES 330K 1/16W 1% 100ppm					
38	1	R200	10K			RES 10K 1/16W 1% 100ppm					
39	1	SH100	RF_SHIELD_FRAME_BMI-S	Laird Technologies	BMI-S-203-F					NM	
40	1	SH101	RF_SHIELD_COVER_BMI-S	Laird Technologies	BMI-S-203-C					NM	
41	20	TPJ1,TPJ2,TPJ3,TPJ4,TPJ5,TPJ6,TPJ7,TPJ8,TPJ9,TPJ10,TPJ11,TPJ12	TPJ_SMD								
42	1	TP1	RF_TEST_POINT								
43	1	U1	EFR32FG14P233F256GM4	Silicon Labs	EFR32FG14P233F256GM48-BR						
44	1	U100	NC	Macronix	MX25R8035FBDI0	IC SERIAL FLASH 8Mb				NM	
45	1	U200	NC	Microchip	24AA024T-I/MNY	IC EEPROM 2KBIT SERIAL				NM	
46	1	X1	38.400 MHz	KDS	DSX211SH 1ZZNAE38400AB0A						
47	1	X2	32.768 kHz	KDS	DST210 1TJG125DP1A0012						