

P/N:	EFR32xG1x_DISC_REF_DES									
Revision:	A00									
Description:	EFR32FG14 Discrete Balun 868MHz 20 dBm Reference Design									
Revised:	Friday, March 20, 2020									
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	1P5	Murata	GRM0335C1H1R5BA01		±0.1P		COG	
4	1	C5	270P	Murata	GRM0335C1E271GA01					
5	1	C6	5P6	Murata	GRM0335C1H5R6BA01					
6	1	C8	3P6	Murata	GRM0335C1H3R6BA01		±0.1P		COG	
7	2	C10,C12	3P0	Murata	GRM0335C1H3R3BA01		±0.1P		COG	
8	1	C11	5P6	Murata	GRM0335C1H5R6BA01		±2%		COG	
9	1	C13	NC							NM
10	1	C14	2.2P	Murata	GRM0335C1H2R2BA01		±0.1pF			
11	1	C102	100P			CAP CER COG 100pF 50V 5%		5% 50V	COG	
12	2	C103,C107	10P			CAP CER NP0 10pF 50V 5%		5% 50V	COG	
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	33P	Murata	GRM0335C1H330GA01		±2%			
22	1	L3	20N	Murata	LQP03HQ20NH02	INDUCTOR RF 20nH 250mA	±3%			
23	2	L4	180N	Murata	LQW15CNR18J10D	INDUCTOR RF 180nH 560mA 1GHz 5%	±5%			
24	2	L5,L6	3N6	Murata	LQP03HQ3N6C02D	INDUCTOR RF 3.6nH 500mA	±0.2nH			
25	1	L7	9N1	Murata	LQP03HQ9N1C03D	INDUCTOR RF 9.1nH				
26	2	L8,L9	11N	Murata	LQP03HQ11NH02D	INDUCTOR RF 11nH 300mA	±3%			
27	1	L100	4U7	Murata	LQH3NPN4R7MMOL	INDUCTOR POWER 4.7uH 1.25A 20%				
28	1	L101	CBF102WB	Würth Electronics		74279266 FERRITE BEAD 1000R 200mA				
29	2	L102,L103	BLM18AG601SN1	Murata	BLM18AG601SN1D					
30	1	PCB1	PCB4259A		PCB4259A Rev. A00					
31	1	P1	SMA	TE Connectivity	5-1814832-1	CONN SOCKET SMA STR DIE CAST				
32	1	P2	U.FL	Hirose	U.FL-R-SMT-1					
33	2	P200,P201	SOCKET_2X20_1.27MM	Samtec	SFC-120-T2-L-D-A-K-TR	CONN SOCKET STRIP 1.27mm				
34	1	RP200	100R	ROHM	MNR04M0APJ101	RES ARRAY 100R 5% CONVEX				
35	5	R1,R201,R203,R205,R211	0R			RES OR 1max 2A JUMPER				
36	4	R2,R204,R206,R210	0R							NM
37	1	R100	1R			RES 1R 1/16W 1% 200ppm				
38	1	R103	330K			RES 330K 1/16W 1% 100ppm				
39	1	R200	10K			RES 10K 1/16W 1% 100ppm				
40	1	SH100	RF_SHIELD_FRAME_BMI	Laird Technologies	BMI-S-203-F					NM
41	1	SH101	RF_SHIELD_COVER_BMI	Laird Technologies	BMI-S-203-C					NM
42	20	TPJ1,TPJ2,TPJ3,TPJ4,TPJ5,TPJ6,TPJ7,TPJ8,TPJ9,TPJ10,TPJ11,TPJ12	TPJ_SMD							
43	1	TP1	RF_TEST_POINT							
44	1	U1	EFR32FG14P233F256GM	Silicon Labs	EFR32FG14P233F256GM48-BR					
45	1	U100	NC	Macronix	MX25R8035FBDI0	IC SERIAL FLASH 8Mb				NM
46	1	U200	NC	Microchip	24AA024T-I/MNY	IC EEPROM 2KBIT SERIAL				NM
47	1	X1	38.400 MHz	KDS	DSX211SH 1ZZNAE38400AB0A					
48	1	X2	32.768 kHz	KDS	DST210 1TJG125DP1A0012					