P/N: EFR32xG1x\_DISC\_REF\_DES

Revision: A00

Description: EFR32FG14 Discrete Balun 915MHz 20 dBm Reference Design

Revised: Friday, March 20, 2020

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em .	Quantit	y 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	1P4	Murata	GRM0335C1H1R4BA01		±0.1P	C0G	
	4	1 C5	270P	Murata	GRM0335C1E271GA01				
	5	1 C6	5P1	Murata	GRM0335C1H5R1BA01				
	6	1 C8	3P	Murata	GRM0335C1H3R0BA01		±0.1P	COG	
	7	2 C10,C12	3P3	Murata	GRM0335C1H3R3BA01		±0.1P	COG	
	8	1 C11	5P6	Murata	GRM0335C1H5R6BA01		±2%	COG	
	9	1 C13	NC						NM
	10	1 C14	2P	Murata	GRM0335C1H2R0BA01		±0.1pF		
	11	1 C102	100P			CAP CER COG 100pF 50V 5%	5% 50V	COG	
	12	2 C103,C107	10P			CAP CER NPO 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	18N	Murata	LQP03HQ18NH02	INDUCTOR RF 18nH 250mA	±3%		
	23	2 L4	180N	Murata	LQW15CNR18J10D	INDUCTOR RF 180nH 560mA 1GHz	59±5%		
	24	2 L5,L6	3N3	Murata	LQP03HQ3N3C02D	INDUCTOR RF 3.3nH 500mA	±0.2nH		
	25	1 L7	6N8	Murata	LQP03HQ6N8C03D	INDUCTOR RF 6.8nH	-		
	26	2 L8,L9	10N	Murata	LQP03HQ10NH02D	INDUCTOR RF 10nH 300mA	±3%		
	27	1 L100	4U7	Murata	LQH3NPN4R7MM0L	INDUCTOR POWER 4.7uH 1.25A 20			
	28	1 L101	CBF102WB	Würth Electronics		66 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	CONTROL CONTROL CONTROL			
	33	2 P200,P201	SOCKET 2X20 1.27MM		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	OR			RES OR Imax 2A JUMPER			
	36	4 R2,R204,R206,R210	OR OR						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 BN	Al-Laird Technologies	BMI-S-203-F				NM
	41	1 SH101	RF SHIELD COVER BN	<del>-</del>	BMI-S-203-C				NM
	42	20 TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP110,TP111,TP111, ISMD							
	43	1 TP1	RF TEST POINT						
	44	1 U1	EFR32FG14P233F256G	M Silicon Lahs	EFR32FG14P233F256GM48-BR				
	45	1 U100	NC	Macronix	MX25R8035FBDIL0	IC SERIAL FLASH 8Mb			NM
	46	1 U200	NC NC	Microchip	24AA024T-I/MNY	IC EEPROM 2KBIT SERIAL			NM
	47	1 X1	38.400 MHz	KDS	DSX211SH 1ZZNAE38400AB0A	IC LLI NOIVI ZNDIT JENIAL			IAIAI
	48	1 X2	32.768 kHz	KDS	DST210 1TJG125DP1A0012				