P/N: EFR32xG1x\_DISC\_REF\_DES

Revision: A00

Description: EFR32FG14 Discrete Balun 490MHz 20 dBm Reference Design

Revised: Friday, March 20, 2020

1 1 171	Itam		Deference	Value	Manufacturer	Manufacturers Part Number	Description	Tolerance	Rating	Technology	Not Mounted
1 C	Item				Manuracturer	Manufacturers Part Number	Description	Tolerance	Kating	rechnology	Not Wounted
3   2 C.C.(4   197   Murata   GRM0335CH1RFRADG   5.1 P   C.C.											NA
1   1   1   1   1   1   1   1   1   1					•	CD140225C4114D7D404		10.45		50.5	INIVI
S   1 G   10 P								±0.1P		CUG	
Fig.   1 CB											
1   1   1   1   1   1   1   1   1   1								10.45		50.5	
S											
1   1   1   1   1   1   1   1   1   1											
10											
1					Murata	GRM0335C1H6R2BA01		±0.1p⊦		COG	
12											NM
13					Murata	GRM0335C1H2R0BA01		±0.1p⊦			
14											
15											
16   3 C11.C114.C117											
17			,								
18											
19											
1.09											
11							CAP CER X7R 100nF 16V 10%				
22									10% 10V	X5R	
23											NM
24											
25											
1.17						•					
27								±3%			
1.100											
1.101											
30								6			
31							6 FERRITE BEAD 1000R 200mA				
32			,		Murata						
1 P2											
34   2 P200,P201   SOCKET_2X20_1.27MM_Samtec   SFC-120-T2-L-D-A-K-TR   CONN SOCKET STRIP 1.27mm							CONN SOCKET SMA STR DIE CAST				
35											
S											
NM   NM   NM   NM   NM   NM   NM   NM					ROHM	MNR04M0APJ101					
38       1 R100       1R       RES 1R 1/16W 1% 200ppm         39       1 R103       330K       RE5 330K 1/16W 1% 100ppm         40       1 R200       10K       RE5 10K 1/16W 1% 100ppm         41       1 SH100       RF_SHIELD_FRAME_BMI-Laird Technologies       BMI-S-203-F       NM         42       1 SH101       RF_SHIELD_COVER_BMI- Laird Technologies       BMI-S-203-C       NM         43       20 TPJ1,TPJ2,TPJ3,TPJ4,TPJ5,TPJ6,TPJ7,TPJ8,TPJ9,TPJ10,TPJ11,TPJTPJ_SMD       NM         44       1 TP1       RF_TEST_POINT       FFR32FG14P233F256GM Silicon Labs       EFR32FG14P233F256GM48-BR         45       1 U10       EFR32FG14P233F256GM Silicon Labs       EFR32FG14P233F256GM48-BR         46       1 U100       NC       Macronix       MX25R8035FBDIL0       IC SERIAL FLASH 8Mb       NM         47       1 U200       NC       Microchip       24AA024T-//MMY       IC EEPROM 2KBIT SERIAL       NM         48       1 X1       38.400 MHz       KDS       DSX211SH 1ZZNAE38400AB0A							RES OR Imax 2A JUMPER				
39											NM
40											
41         1 SH100         RF_SHIELD_FRAME_BMI- Laird Technologies         BMI-S-203-F         NM           42         1 SH101         RF_SHIELD_COVER_BMI- Laird Technologies         BMI-S-203-C         NM           43         20 TP1J_TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP110,TP11TP1_SMD         FR         FR           44         1 TP1         RF_EST_GOINT         FR         FR           45         1 U1         EFR32FG14P233F256GM Silicon Labs         EFR32FG14P233F256GM48-BR         FR           46         1 U100         NC         Macronix         MX25R8035FBDIL0         IC SERIAL FLASH 8Mb         NM           47         1 U200         NC         Microchip         24AA024T-I/MNY         IC EEPROM 2KBIT SERIAL         NM           48         1 X1         38.400 MHz         KDS         DSX211SH 1ZZNAE38400AB0A         TC EEPROM 2KBIT SERIAL         TC EEPROM 2KBIT SERIAL         TC EEPROM 2KBIT SERIAL         NM											
42         1 SH101         RF_SHIELD_COVER_BMI- Laird Technologies         BMI-S-203-C         NM           43         20 TPJ1,TPJ2,TPJ3,TPJ4,TPJ5,TPJ6,TPJ7,TPJ8,TPJ9,TPJ10,TPJ11,TPJTPJ_SMD         SMI-S-203-C         NM           44         1 TP1         RF_TEST_POINT         SEFR32FG14P233F256GM Silicon Labs         EFR32FG14P233F256GM48-BR           45         1 U1         EFR32FG14P233F256GM Silicon Labs         EFR32FG14P233F256GM48-BR           46         1 U100         NC         Macronix         MX25R8035FBDIL0         IC SERIAL FLASH 8Mb         NM           47         1 U200         NC         Microchip         24AA024T-I/MMY         IC EEPROM 2KBIT SERIAL         NM           48         1 X1         38.400 MHz         KDS         DSX211SH 1ZZNAE38400AB0A							RES 10K 1/16W 1% 100ppm				
43     20 TPJ1,TPJ2,TPJ3,TPJ4,TPJ5,TPJ6,TPJ7,TPJ8,TPJ9,TPJ10,TPJ11,TPJTP] SMD       44     1 TP1     RF_TEST_POINT       45     1 U1     EFR32FG14P233F256GM Silicon Labs     EFR32FG14P233F256GM48-BR       46     1 U100     NC     Macronix     MX25R8035FBDIL0     IC SERIAL FLASH 8Mb     NM       47     1 U200     NC     Microchip     24AA024T-I/MMY     IC EEPROM 2KBIT SERIAL     NM       48     1 X1     38.400 MHz     KDS     DSX211SH 1ZZNAE38400AB0A											
44         1 TP1         RF_TEST_POINT           45         1 U1         EFR32FG14P233F256GM Silicon Labs         EFR32FG14P233F256GM48-BR           46         1 U100         NC         Macronix         MX25R8035FBDIL0         IC SERIAL FLASH 8Mb         NM           47         1 U200         NC         Microchip         24AA024T-I/MNY         IC EEPROM 2KBIT SERIAL         NM           48         1 X1         38.400 MHz         KDS         DSX211SH 1ZZNAE38400AB0A					- Laird Technologies	BMI-S-203-C					NM
45         1 U1         EFR32FG14P233F25GGM Silicon Labs         EFR32FG14P233F25GGM48-BR           46         1 U100         NC         Macronix         MX25R8035FBDIL0         IC SERIAL FLASH 8Mb         NM           47         1 U200         NC         Microchip         24AA024T-I/MNY         IC EEPROM 2KBIT SERIAL         NM           48         1 X1         38.400 MHz         KDS         DSX211SH 1ZZNAE38400AB0A         DSX211SH 1ZZNAE38400AB0A											
46         1 U100         NC         Macronix         MX25R8035FBDIL0         IC SERIAL FLASH 8Mb         NM           47         1 U200         NC         Microchip         24AA024T-I/MNY         IC EEPROM 2KBIT SERIAL         NM           48         1 X1         38.400 MHz         KDS         DSX211SH 1ZZNAE38400AB0A											
47         1 U200         NC         Microchip         24AA024T-I/MNY         IC EEPROM 2KBIT SERIAL         NM           48         1 X1         38.400 MHz         KDS         DSX211SH 1ZZNAE38400AB0A											
48 1 X1 38.400 MHz KDS DSX211SH 1ZZNAE38400AB0A											
						· · · · · · · · · · · · · · · · · · ·	IC EEPROM 2KBIT SERIAL				NM
40 1 V2 22 769 kHz VDC DST210 1TIG12ED01A0012											
49 1 KZ 32.700 KHZ ND3 D31210 1130123DF1A0012		49	1 X2	32.768 kHz	KDS	DST210 1TJG125DP1A0012					