



BD57015GWL-EVK-001 BOM

November, 2016
Wireless Power Transfer Group



BD57015GWL

PCB Parts List

DS

Coil:Wurth(760_308_102_207)

board Ver.F

Front Side

Rev.002

Items	Parts	Maker	Parts num	size	Value	Rating	other
CRECT4	Capa	MURATA		1.6 x 0.8 mm	none	25V	
CRECT5	Capa	MURATA		2.0 x 1.2 mm	10uF	25V	
CRECT6	Capa	MURATA		2.0 x 1.2 mm	10uF	25V	
COUT	Capa	MURATA		1.6 x 0.8 mm	2.2uF	25V	
CBOOT1	Capa	MURATA		1.6 x 0.8 mm	0.01uF	25V	
CBOOT2	Capa	MURATA		1.6 x 0.8 mm	0.01uF	25V	
CCOMM1	Capa	MURATA		1.6 x 0.8 mm	SHORT	25V	
CCOMM2	Capa	MURATA		1.6 x 0.8 mm	SHORT	25V	
CCLAMP1	Capa	MURATA		1.6 x 0.8 mm	0.15uF	25V	
CCLAMP2	Capa	MURATA		1.6 x 0.8 mm	0.15uF	25V	
CVCC	Capa	MURATA		1.6 x 0.8 mm	1.0uF	25V	
CP1	Capa	MURATA		1.6 x 0.8 mm	2200pF	25V	
CP2	Capa	MURATA		1.6 x 0.8 mm	820pF	25V	
CP3	Capa	MURATA		1.6 x 0.8 mm	none	25V	
CS1	Capa	MURATA		1.6 x 0.8 mm	0.1uF	25V	
CS2	Capa	MURATA		1.6 x 0.8 mm	0.082uF	25V	
CS3	Capa	MURATA		1.6 x 0.8 mm	0.082uF	25V	
CREG25	Capa				none		
CRGATE	Capa				none		
CAC2	Capa	MURATA		1.6 x 0.8 mm	none	25V	
ROUTSET	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
THRM	NTC	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none		
RILIM	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
RFOD	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
RFOD2	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
RPG	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	2kΩ	1/8W	
RINTB	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	10kΩ	1/8W	
RRGATE	Res	ROHM		1.6 x 0.8 mm	3.9Ω	25V	
RAC2	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	25V	
LED_PG	LED	ROHM	SML-P11MTT86RG		SML-P11MTT86RG		
SW_QI	SW		CJS-1201A1		none	-	
SW_PMA	SW		CJS-1201A1		none		
I23	SW		SKHHAKA010/4.5x6.5		none		
M1	MOS	ROHM	RTF025N03TL		RTF025N03TL	30V	
M4	MOS				none	30V	
JAC2	jumper	-	-	-	open	-	

Reverse Side

CPDTIME	Capa	MURATA		1.6 x 0.8 mm	none	16V	
RPDTIME	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
CRECT1	DZ	ROHM	UDZSTE-1718B	2.5x1.25mm	none	18V	
CRECT2	Capa	MURATA		3.2 x 2.5 mm	none	25V	
CRECT3	Capa	MURATA		3.2 x 2.5 mm	10uF	25V	
CADDET					none		
RCLAMP1	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	SHORT	1/8W	
RCLAMP2	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	SHORT	1/8W	
RCOM1	Capa	MURATA		1.6 x 0.8 mm	0.01uF	25V	
RCOM2	Capa	MURATA		1.6 x 0.8 mm	0.01uF	25V	
DCLAMP1	DZ	ROHM	KDZTR16B	3.5x1.6mm	none	16V	
DCLAMP2	DZ	ROHM	KDZTR16B	3.5x1.6mm	none	16V	
RP1	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	10kΩ	1/8W	
RPD					none		
R1	Res	ROHM	MCR03, Size=1609	1.6 x 0.9 mm	10kΩ	1/8W	
M0					none		
M2	MOS	ROHM	RTF025N03TL		RTF025N03TL		
M3	MOS	ROHM	RTF025N03TL		RTF025N03TL		
JRGATE					short		
JPGND1_S					short		
JPGND2_S					short		
JAC1_S					short		
JAC2-S					short		
JOUT_S					short		
JCOM1	Capa	MURATA	GRM155B31E473KA87	1.0 x 0.5 mm	0.047uF	25V	
JCOM2	Capa	MURATA	GRM155B31E473KA87	1.0 x 0.5 mm	0.047uF	25V	
JVCC					short		
J1					open		
J2					short		
J3					open		
J4					open		
JRECT_S					short		
JREG25					open		
JADDET					open		

Items	Parts	Maker	Parts num	size	Value	Rating	other
C_0	Capa	MURATA	GRM series		0.01uF	50V	GRM188R61H103KA01D
C_2	Capa	MURATA	GRM series		0.01uF	50V	GRM188R61H103KA01D
C_3	Capa	MURATA	GRM series		0.01uF	50V	GRM188R61H103KA01D
C_5	Capa	MURATA	GRM series		10uF	25V	GRM21BB31E106KA73L
C_6	Capa	MURATA	GRM series		0.01uF	50V	GRM188R61H103KA01D
C_7	Capa	MURATA	GRM series		1uF	50V	GRM188R61H105KAALD
R_8	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	2kΩ	1/8W	
R_9	Res				none		
R_10	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	2kΩ	1/8W	
D1	LED	ROHM	SML-P11MTT86RG		SML-P11MTT86RG		
D2	LED		SML-P11MTT87RG		none		
D3	LED	ROHM	SML-P11MTT86RG		SML-P11MTT86RG		
U2	IC	LAPIS			ML610Q112		
U3	IC	Linear Technology			LT3060		
M5	MOS	ROHM	RUU002N05 T106		none	30V	
SW0	SW		CJS-1201A0		none		Dip switch
SW1	SW		CJS-1201A1		none		Dip switch
SW2	SW		CJS-1201A1		none		Dip switch
SW3	SW		CJS-1201A1		none		Dip switch
SWA	SW				none		Push switch
SWB	SW				none		Push switch
SWC	SW				none		Push switch
JRECT	jumper				short		
JVOUT_VCC	jumper				short		
JINTB	jumper				short		
JPI	jumper				short		
JSCL	jumper				short		
JSDA	jumper				short		
JGPIO1	jumper				open		
JGPIO2	jumper				open		
JGPIO3	jumper				short		
JVSS	jumper				short		
uCOM board (Reverse Side)							
R_0	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	39kΩ	1/8W	
R_1	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	12kΩ	1/8W	
R_2	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	1kΩ	1/8W	
R_3	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	1kΩ	1/8W	
R_5	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
R_6	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
R_7	Res	ROHM	MCR03, Size=1608	1.6 x 0.8 mm	none	1/8W	
JSW_VSS	jumper				short		
JSW_VDD	jumper				short		
J12C_VDD	jumper				short		
JVDD1	jumper				open		
JVSS1	jumper				short		

Precautions

We provide the customers with the evaluation board on the following terms and conditions.

By using the evaluation board, you shall be deemed to have agreed the following terms and conditions. If you do not agree with the following terms and conditions, please return us the evaluation board within 30 days after your receipt.

1. Restriction on purpose of use and method of use

- The purposes of the evaluation board are technical development, demonstration and evaluation only. The evaluation board is not a final finished product suitable for use by general consumers. Therefore, please do not use the whole or a part of the evaluation board as a final finished product.
- Only professionals who are familiar with the risk related to the handling of electromechanical components shall use the evaluation board only for the purpose of technical development, demonstration and evaluation.

2. Our responsibility

- If the evaluation board fails to correspond with the specification prescribed in our “Precautions”, Operating Manual, Application Note, Data Sheet or other documents (collectively “Related Documents”), we will exchange such evaluation board if it is returned within 30 days after your receipt.
- We make no warranties with respect to the evaluation board, expressed or implied, including reliability assurance, merchantability or fitness for a particular purpose.

3. Disclaimer

- We shall not be responsible for any application support, your product design and/or software performance.
- We shall not be liable for any and all damage that may be incurred to you due to the use or non-usability of the evaluation board, or any error in the statement of the Related Documents.
- We shall not be liable for any claim, damage, loss, liability or obligation arising in connection with the use of the evaluation board not in accordance with the Related Documents.

4. Intellectual property right

- We make no warranties that the evaluation board does not infringe any third party patent right or any other right.
- We do not license you or allow you implement or exploit, expressed or implied, our intellectual property right or any other right with respect to the evaluation board and the information stated in the Related Documents.

5. Your responsibility

- Please understand from (1) to (3) of the below and give representation and consent:
 - (1)• that you have knowledge of laws and regulatory rules applicable to the evaluation, test or any other use of your products and the evaluation board;
 - (2)• that your products are safe, and that you are responsible for assurance of the your products' compliance with laws and regulatory rules;

- that you are responsible for the safety of act of yourself, your employees, affiliates, contractors and/or designers who use the evaluation board;
 - that you properly isolate the interface between the evaluation board and a human body in order to minimize the risk of electric shock.
- (3)▪ that as the evaluation board is not a final finished product, which may not conform with the safety standards (UL, CSA, VDE, CE, RoHS, WEE, etc.), you shall judge on your own responsibility whether the evaluation board comply with such standards and related certifications.
- that you take preventive measures to prevent any occurrence such as property damage, injury or death even in the event that the evaluation board does not function as prescribed in the Related Documents or as expected.
 - Before you handle this evaluation board, please read the Related Documents, especially the “Precautions”.
 - If you use the evaluation board for use for any product that shall place top priority in safety such that any defect of the evaluation board may cause serious injury or death, please notify us of such intention, and if we request, please execute contracts for guarantee and indemnity separately.
 - Please do not disassemble, alter, or change the evaluation board.
 - Please do not resell the evaluation board.
 - After completing evaluation, please return us the evaluation board, or destruct or dispose of the evaluation board on your responsibility.

End

