

REV 2_bom_

Component	Description
1	LED, Green, 2.2V, 20mA, 0805
2	DIODE SCHOTTKY 100V 1A SOD123W
3	Ampseal connector 35 pin vertical
4	CONN HEADER 4 POS 2.54
5	Micro-MaTch connector 6 pin female vertical
6	Micro-MaTch connector 20 pin female vertical
7	Relay, SPST-NO, Switch 10A/30V, Coil 40mA/5V
8	MOSFET, P-channel, 30V, 2A
9	MOSFET, N-channel, 30V, 6A
10	Resistor, 10K, 0.25W, 1%, 0805
11	Resistor, 1K, 0.25W, 1%, 0805
12	Fuse Holder
13	RJ45 ethernet connector vertical

Component Groups:	13
Component Count:	22
Fitted Components:	22
Number of PCBs:	1
Total components:	22
Schematic Version:	
Schematic Date:	
BoM Date:	Wed 20 Feb 2019 08:30:59 PM EST
Schematic Source:	/home/manu/Desktop/Formula/MKIV-Boards/Boards/LV_Interface/REV 2.sch
KiCad Version:	Eeschema 5.0.0-fee4fd1~66~ubuntu18.04.1

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Part	References	Value	Footprint
LED_0805	D3	LED_0805	LED_0805_OEM
SS110LW	D2	SS110LW	D_SOD-123W_OEM
Ampseal_35_VT	J1	Ampseal_35_VT	Ampseal_35
CONN_01x04	J7	CONN_01x04	Ultrafit_4
MM_F_VT_06	J2	MM_F_VT_06	micromatch_female_vert_6
MM_F_VT_20	J3 J4 J5 J6	MM_F_VT_20	micromatch_female_vert_20
G5Q-1A4-DC5-5V	K1 K2	G5Q-1A4-DC5-5V	Relay_SPST_OMRON-G5Q-1A4_OEM
BSS308PE	Q2	BSS308PE	SOT-23-3_OEM
SSM3K333R	Q1 Q3	SSM3K333R	SOT-23F
R_10K	R3 R4	R_10K	R_0805_OEM
R_1K	R1 R2	R_1K	R_0805_OEM
Fuse_Holder_Blade	U2 U3 U4	Fuse_Holder_Blade	Fuse_Block_Holder
RJ45_VT	U1	RJ45_VT	RJ45-Vertical

Quantity Per PCB

1
1
1
1
1
1
4
2
1
2
2
2
3
1

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Datasheet

http://www.osram-os.com/Graphics/XPic9/00078860_0.pdf

http://www.taiwansemi.com/products/datasheet/SS14LW%20SERIES_A1511.pdf

<http://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F776231%7F>

<https://katalog.we-online.de/em/datasheet/6130xx11121.pdf>

<http://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F338068%7F>

<http://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F338068%7F>

http://omronfs.omron.com/en_US/ecb/products/pdf/en-g5q.pdf

https://www.infineon.com/dgdl/BSS308PE_Rev2.03.pdf?folderId=db3a304314dca38901154a72e3951a65&fileId=db3a304330

<https://drive.google.com/drive/folders/0B-V-iZf33Y4GNzhDQTJJZanJRbVk>

<http://www.bourns.com/data/global/pdfs/CRS.pdf>

<https://www.seielect.com/Catalog/SEI-rncp.pdf>

<https://www.keyelco.com/userAssets/file/M65p41.pdf>

<https://www.amphenolcanada.com/ProductSearch/drawings/AC/MRJ548XX1.pdf>

MPN	MFN
475-1410-1-ND	DK
SS110LWRVGCT-ND	DK
1-776231-1	TE
732-5317-ND	DK
338068-6	TE
2-338068-0	TE
Z3632-ND	DK
BSS308PEH6327XTSA1CT-ND	DK
SSM3K333RLFCT-ND	DK
CRS0805-FX-1002ELFCT-ND	DK
RNCP0805FTD1K00CT-ND	DK
36-3557-2-ND	DK
MRJ-5481-01-ND	DK

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PurchasingLink

<https://www.digikey.com/products/en?keywords=475-1410-1-ND>

<https://www.digikey.com/product-detail/en/taiwan-semiconductor-corporation/SS110LW-RVG/SS110LWRVGCT-ND/7359346>

<http://www.te.com/usa-en/product-1-776231-1.html>

<https://www.digikey.com/product-detail/en/wurth-electronics-inc/61300411121/732-5317-ND/4846827>

<http://www.te.com/global-en/product-338068-6.html>

<http://www.te.com/global-en/product-2-338068-0.html>

<https://www.digikey.com/product-detail/en/omron-electronics-inc-emc-div/G5Q-1A4-DC5/Z3632-ND/1815721>

<https://www.digikey.com/products/en/discrete-semiconductor-products/transistors-fets-mosfets-single/278?k=bss308pe&k=&p>

<https://www.digikey.com/product-detail/en/toshiba-semiconductor-and-storage/SSM3K333RLF/SSM3K333RLFCT-ND/352239>

<https://www.digikey.com/products/en?keywords=CRS0805-FX-1002ELFCT-ND>

<https://www.digikey.com/products/en?keywords=RNCP0805FTD1K00CT-ND>

<https://www.digikey.com/product-detail/en/keystone-electronics/3557-2/36-3557-2-ND/2137305>

<https://www.digikey.com/products/en?keywords=MRJ-5481-01>