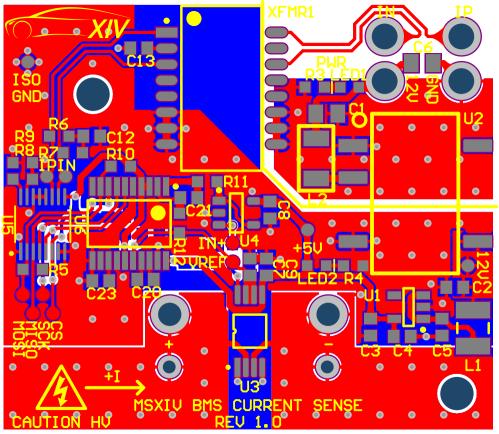
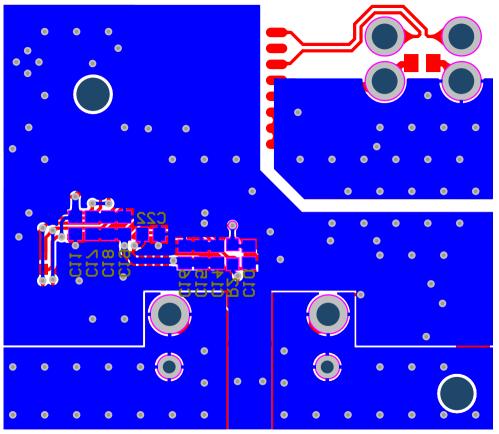


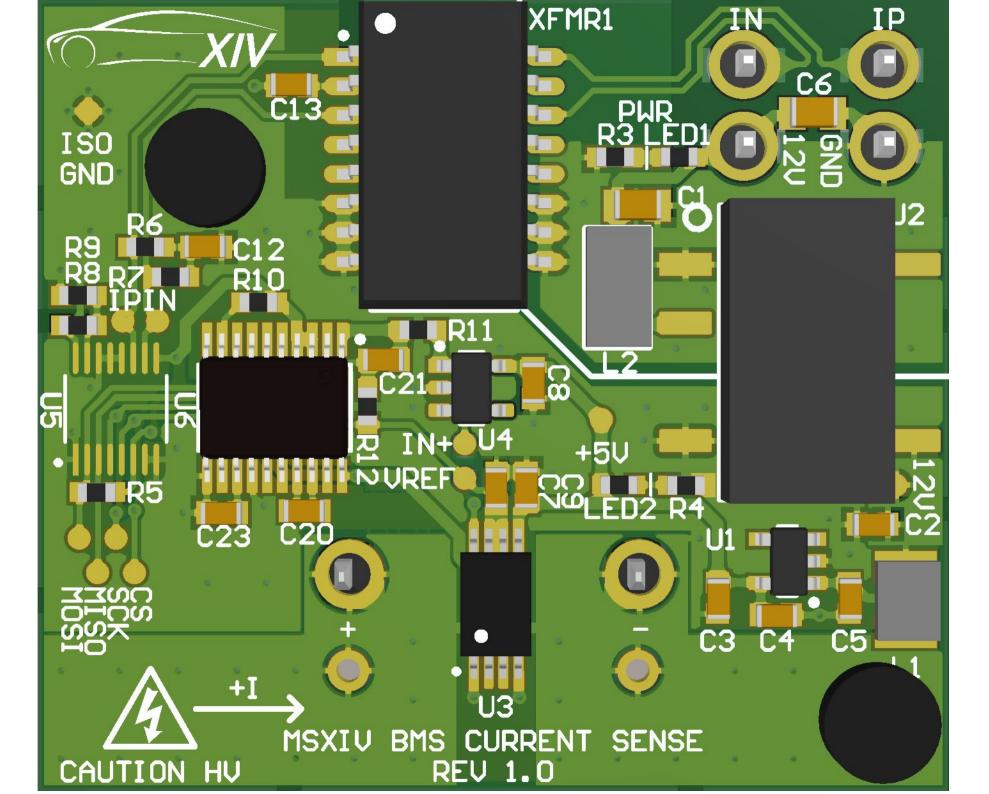
Bill of Materials				
Project:	BMS_Current_Sense.PrjPcb			
Revision:	1.0			
Project Lead:	Liam Haw kins			
Generated On:	2019-09-13 8:24 PM			
Production Quantity:	1			
Currency	CAD			
Total Parts Count:	46			



LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Quantity	Suppli	ier Subtotal 1
C AP CER 4.7UF 50V 10% X5R 0805	C1	Murata	GRT21BR61H475ME13L	Digi-Key	490-12395-1-ND	0.58385	1	\$	0.58
C AP CER 2.2UF 25V 10% X5R 0603	C2	Murata	GRM188R61E225KA12D	Digi-Key	490-10731-1-ND	0.22558	1	\$	0.23
C AP CER 2.2UF 25V 10% X5R 0603	C3	Murata	GRM188R61E225KA12D	Digi-Key	490-10731-1-ND	0.22558	1	\$	0.23
CAPCER 1UF 50V 10% X7R 0603	C4	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
CAPCER 1UF 50V 10% X7R 0603	C5	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
CAP CER 10uF 25V 10% X5R 0805	C6	Murata	GRM21BR61E106KA73L	Digi-Key	490-5523-1-ND	0.57058	1	\$	0.57
C AP CER 0.022UF 50V 10% X7R 0603	C7	Murata	GRM188R71H223KA01D	Digi-Key	490-1517-1-ND		1		
C AP CER 0.1UF 50V 10% X7R 0603	C8	Kyocera AVX	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.19904	1	\$	0.20
C AP CER 0.1UF 50V 10% X7R 0603	C9	Kyocera AVX	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.19904	1	\$	0.20
CAP CER 10nF 50V 5% X7R 0603	C10	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.43789	1	\$	0.44
C AP CER 0.1UF 50V 10% X7R 0603	C11	Kyocera AVX	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.19904	1	\$	0.20
CAP CER 10nF 50V 5% X7R 0603	C12	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.43789	1	\$	0.44
CAP CER 20PF 50V ±5% C0G/NP0 0603	C13	Murata	GRM1885C1H200JA01D	Digi-Key	490-1410-1-ND	0.13269	1	\$	0.13
CAPCER 1UF 50V 10% X7R 0603	C14	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
C AP CER 0.1UF 50V 10% X7R 0603	C15	Kyocera AVX	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.19904	1	\$	0.20
C AP CER 0.022UF 50V 10% X7R 0603	C16	Murata	GRM188R71H223KA01D	Digi-Key	490-1517-1-ND		1		
CAPCER 1UF 50V 10% X7R 0603	C17	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
CAPCER 0.1UF 50V 10% X7R 0603	C18	Kyocera AVX	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.19904	1	\$	0.20
CAPCER 0.022 UF 50V 10% X7R 0603	C19	Murata	GRM188R71H223KA01D	Digi-Key	490-1517-1-ND	0.00470	1		
CAPCER 1UF 50V 10% X7R 0603	C20	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
CAP CER 10nF 50V 5% X7R 0603	C21	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.43789	1	\$	0.44
CAPCER 1UF 50V 10% X7R 0603	C22	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
CAPCER 1UF 50V 10% X7R 0603	C23	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33173	1	\$	0.33
IND 100uH60mA5% 1210	L1	TDKEPCOS	B82422T1104J000	Digi-Key	495-5646-1-ND	0.79616	1	\$	0.80
IND 6.8uH260mA20% 1210 LEDYELLOW CLEAR 2.1V 0603	L2 LED1	TDK Wurth Electronics	NLFV32T-6R8M-EF 150060YS75000	Digi-Key	445-15776-1-ND	0.58385 0.18577	1	\$ \$	0.58 0.19
LED Y ELLOW CLEAR 2.1V 0603 LED GREEN CLEAR 2V 0603	LED1 LED2	Wurth Electronics Wurth Electronics	150060YS75000 150060VS75000	Digi-Key Digi-Kev	732-4981-1-ND 732-4980-1-ND	0.18577	1	\$	0.19
RESSHUNT100UOHM5%36W60MM	R1	Vishay Dale	WSBM8518L1000JK	Digi-Key Digi-Key	541-1906-ND	38.39	1	\$	38.39
R E S 120 OHM1% 1/10W 0603	R2	Yaqeo	RC0603FR-07120RL	Digi-Key Digi-Key	311-120HRCT-ND	0.13269	1	\$	0.13
R ES 4.7K OHM1% 1/10W 0603	R3	Yageo Phycomp	RC0603FR-074K7L	Digi-Key Digi-Key	311-4.70KHRCT-ND	0.13269	1	\$	0.13
R E S 2K OHM1% 1/10W 0603		Yageo	RC0603FR-074K/L	Digi-Key Digi-Key	311-2.00KHRCT-ND	0.13269	1	\$	0.13
R E S 2 K O H M 1% 1/10 W 0603 R E S 2 K O H M 1% 1/10 W 0603	R5	Yageo	RC0603FR-072KL	Digi-Key Digi-Key	311-2.00KHRCT-ND	0.13269	1	\$	0.13
R ES 62 OHM 0.1% 1/10W 0603		Panasonic	ERA3AEB620V	Digi-Key Digi-Key	P62DBCT-ND	0.13269	1	\$	0.13
R ES 62 OHM0.1% 1/10W 0603		Panasonic	ERASAEB620V ERASAEB620V	Digi-Key Digi-Key	P62DBCT-ND	0.46443	1	\$	0.46
RES 1.4k OHM1% 1/10W 0603	R8	Yageo	RC0603FR-071K4L	Digi-Key Digi-Key	311-1.40KHRCT-ND	0.40443	1	\$	0.40
R E S 604 OHM 1% 1/10W 0603	R9	Yageo	RC0603FR-07604RL	Digi-Key	311-604HRCT-ND	0.13269	1	\$	0.13
RES2KOHM1%1/10W0603	R10	Yageo	RC0603FR-072KL	Digi-Key	311-2.00KHRCT-ND	0.13269	1	\$	0.13
R ES 22.1 OHM1% 1/10W 0603	R11	Yageo	RC0603FR-0722R1L	Digi-Key	311-22.1HRCT-ND	0.13269	1	\$	0.13
R ES 22.1 OHM1% 1/10W 0603	R12	Yageo	RC0603FR-0722R1L	Digi-Key	311-22.1HRCT-ND	0.13269	1	\$	0.13
I C REG L DO 5 V 0.1 A SOT 23-5	U1	STMicroelectronics	LD2981CM50TR	Digi-Key	497-7787-1-ND	0.8625	1	\$	0.86
IC DCDC ISOLATED 12V 1W8-SMD 5-LEAD	U2	XP Power	ISE1212A-TR	Digi-Key	1470-2950-1-ND	5.64	1	\$	5.64
ICCURRENTAMPLIFIER INA240 8-TSSOP	U3	Texas Instruments	INA240A3PWR	Digi-Key	296-45090-1-ND	3.52	1	\$	3.52
C OP AMP GEN PUR POSE RR 5.5MHZ SOT-23-5	U4	Texas Instruments	OPA376AQDBVRQ1	Digi-Key	296-36701-1-ND	2.84	1	\$	2.84
ISOSPICOMMINTERFACELTC6820IMS#3ZZP	U5	Analog Devices/Linear	LTC6820IMS#3ZZPBF	Digi-Key	TC6820IMS#3ZZPBF-NI	8.01	1	\$	8.01
IC ADC 24BITSPI 14KSPS 20TSSOP	U6	Texas Instruments	ADS1259QPWRQ1	Digi-Key	296-38039-1-ND	16.69	1	\$	16.69
IC PULSE XFMR 1CT:1CT350UH SMD	XFMR1	Bourns	PT61018AAPEL-S	Digi-Key	PT61018AAPEL-SCT-ND	5.08	1	\$	5.08
							Total:	\$	91.28







Electrical Rules Check Report

Class	Document	Message
Warning	ADC_Circuit.SchDoc	NetC22_1 contains IO Pin and Output Port objects (Pin U6-16, Port 2V5_VREF)
Warning	BMS_Current_Sense.SchDoc	Net NetC10_1 has no driving source (Pin C10-1,Pin R2-2,Pin TP1-TP,Pin U4-3)
Warning	ADC_Circuit.SchDoc	Net NetC20_1 has no driving source (Pin C20-1,Pin U6-17)
Warning	ADC_Circuit.SchDoc	Net NetC20_2 has no driving source (Pin C20-2,Pin U6-18)
Warning	ADC_Circuit.SchDoc	Net NetC21_1 has no driving source (Pin C21-1,Pin R11-2,Pin U6-1)
Warning	ADC_Circuit.SchDoc	Net NetC21_2 has no driving source (Pin C21-2,Pin R12-2,Pin U6-2)
Warning	BMS_Current_Sense.SchDoc	Net Sense_2_P has no driving source (Pin R1-5,Pin U3-2)
Warning	BMS_Current_Sense.SchDoc	Nets Wire Sense_N has multiple names (Net Label Sense_N,Power Object ISO GND,Power
		Object ISO GND, Power Object ISO GND, Power Object ISO GND, Power Object ISO
		GND,Power Object ISO GND,Power Object ISO GND,Power Object ISO GND,Power
Warning	ADC_Circuit.SchDoc	Object Nes Wire Sense N has multiple names (Net Label Sense N Power Object ISO GND Power SO GND Power Object ISO GND Power Object ISO GND Power Object ISO GND Power Object ISO GND, Power Object ISO
		Object
		ISO GND, Power Object ISO GND, Power Object ISO GND, Power Object ISO GND, Power
		Object ISO GND, Power Object ISO GND, Power Object ISO GND, Power Object ISO
		GND,Power Object ISO GND,Power Object ISO GND,Power Object ISO GND,Power
		O bject
		ISO GND, Power Object ISO GND, Power Object ISO GND)

Friday 13 Sep 2019 8:24:19 PN. Page 1 of 1

Design Rules Verification Report

Filename: C:\Users\Liam\Documents\UWaterloo\Midnight Sun\Hardware Repository\hardw

Warnings 0 Rule Violations 231

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.152mm) (All),(All)	0
Clearance Constraint (Gap=0.254mm) (InComponent('R1')),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ((All))	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.152mm) (Max=1.27mm) (Preferred=0.254mm) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.025mm) (Max=2.54mm) (All)	2
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)	71
Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)	132
Silk to Silk (Clearance=0.254mm) (All),(All)	26
Net Antennae (Tolerance=0mm) (All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	231

Hole Size Constraint (Min=0.025mm) (Max=2.54mm) (All)

Hole Size Constraint: (2.65mm > 2.54mm) Pad R1-0(36.353mm,3.133mm) on Multi-Layer Actual Hole Size = 2.65mm
Hole Size Constraint: (2.65mm > 2.54mm) Pad R1-0(7.403mm,26.933mm) on Multi-Layer Actual Hole Size = 2.65mm

Friday 13 Sep 2019 8:24:21 PN: Page 1 of 7

Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C10-1(19.8mm,14.875mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C10-2(19.8mm, 13.525mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C11-1(6mm,17.175mm) on Bottom Layer And Pad C17-2(7.3mm,17.175mm)
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C11-2(6mm,15.825mm) on Bottom Layer And Pad C17-1(7.3mm,15.825mm)
Minimum Solder Wask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C12-1(6.625mm,23.6mm) on Top Layer And Pad R6-2(5.475mm,23.6mm) on
Minimum Solder Wask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C12-1(6.625mm,23.6mm) on Top Layer And Pad R7-2(6.575mm,22.3mm) on Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C12-1(6.625mm,23.6mm) on Top Layer And Pad R7-2(6.575mm,22.3mm) on
Minimum Solder Mask Sliver Constraint: (0.21mm < 0.254mm) Between Pad C13-1(11.7mm,30.6mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.076mm < 0.254mm) Between Pad C13-1(11.7mm, 30.6mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C14-1(17.3mm,13.525mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C14-1(17.3mm,13.525mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C14-2(17.3mm,14.875mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C14-2(17.3mm,14.875mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C15-1(16mm,13.525mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C15-2(16mm,14.875mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C17-1(7.3mm,15.825mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C17-2(7.3mm,17.175mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C18-1(8.6mm,15.825mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.148mm < 0.254mm) Between Pad C18-2(8.6mm,17.175mm) on Bottom Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.137mm < 0.254mm) Between Pad C20-1(10.9mm,12.2mm) on Top Layer And Pad U6-15(9.95mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C 20-1(10.9mm, 12.2mm) on Top Layer And Pad U 6-16(10.6mm, 13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C 20-1(10.9mm, 12.2mm) on Top Layer And Pad U 6-17(11.25mm, 13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.176mm < 0.254mm) Between Pad C 20-1(10.9mm, 12.2mm) on Top Layer And Pad U 6-18(11.9mm, 13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.176mm < 0.254mm) Between Pad C20-2(12.25mm,12.2mm) on Top Layer And Pad U6-17(11.25mm,13.7mm)
Minimum Solder Mask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C 20-2(12.25mm,12.2mm) on Top Layer And Pad U6-18(11.9mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.097mm < 0.254mm) Between Pad C 20-2(12.25mm,12.2mm) on Top Layer And Pad U6-19(12.55mm,13.7mm)
Minimum Solder Mask Sliver Constraint: (0.137mm < 0.254mm) Between Pad C20-2(12.25mm,12.2mm) on Top Layer And Pad U6-20(13.2mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C21-1(15.675mm,18.7mm) on Top Layer And Pad R11-2(15.725mm,20mm)
Minimum Solder Mask Sliver Constraint: (0.122mm < 0.254mm) Between Pad C 21-2(14.325mm,18.7mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C23-1(8.675mm,12.1mm) on Top Layer And Pad U6-12(8mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C23-1(8.675mm,12.1mm) on Top Layer And Pad U6-13(8.65mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C23-1(8.675mm,12.1mm) on Top Layer And Pad U6-14(9.3mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C23-2(7.325mm,12.1mm) on Top Layer And Pad U6-11(7.35mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.197mm < 0.254mm) Between Pad C23-2(7.325mm,12.1mm) on Top Layer And Pad U6-12(8mm,13.7mm) on
Minimum Solder Mask Sliver Constraint: (0.067mm < 0.254mm) Between Pad C6-2(34.475mm,29.4mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.159mm < 0.254mm) Between Pad C7-1(19.888mm,12.525mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.242mm < 0.254mm) Between Pad C7-1(19.888mm,12.525mm) on Top Layer And Pad U3-5(20.856mm,11mm)
Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad C7-1(19.888mm,12.525mm) on Top Layer And Pad U3-6(20.206mm,11mm)
Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad C7-1(19.888mm,12.525mm) on Top Layer And Pad U3-7(19.556mm,11mm)
Minimum Solder Mask Sliver Constraint: (0.251mm < 0.254mm) Between Pad C7-1(19.888mm, 12.525mm) on Top Layer And Pad U3-8(18.906mm, 11mm)
Minimum Solder Mask Sliver Constraint: (0.159mm < 0.254mm) Between Pad C7-2(19.888mm, 13.875mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.21mm < 0.254mm) Between Pad C7-2(19.888mm,13.875mm) on Top Layer And Pad
Minimum Solder Wask Sliver Constraint: (0.254mm) Between Pad C8-1(21.5mm,18.4mm) on Top Layer And Pad U4-5(20.175mm,18.45mm) on
Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad C8-2(21.5mm,17.05mm) on Top Layer And Pad U4-4(20.175mm,16.55mm)
Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad C9-1(21.2mm,12.525mm) on Top Layer And Pad U3-5(20.856mm,11mm) on
Minimum Solder Mask Sliver Constraint: (0.227mm < 0.254mm) Between Pad IP-TP(3.7mm,20.4mm) on Top Layer And Pad 03-3(20.336mm,11mm) on Minimum Solder Mask Sliver Constraint: (0.227mm < 0.254mm) Between Pad IP-TP(3.7mm,20.4mm) on Top Layer And Pad R9-1(2.575mm,21.5mm) on
Minimum Solder Mask Sliver Constraint: (0.222mm < 0.254mm) Between Pad LED1-2(27.05mm,27.49mm) on Top Layer And Pad R3-1(25.8mm,27.5mm) Minimum Solder Mask Sliver Constraint: (0.242mm < 0.254mm) Between Pad LED1-2(27.05mm,27.49mm) on Top Layer And Pad LIA 4(11.25mm 10.6mm)
Minimum Solder Mask Sliver Constraint: (0.248mm < 0.254mm) Between Pad R10-1(10.375mm,21.2mm) on Top Layer And Pad U6-4(11.25mm,19.6mm)
Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R10-1(10.375mm,21.2mm) on Top Layer And Pad U6-5(10.6mm,19.6mm) on
Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R10-1(10.375mm,21.2mm) on Top Layer And Pad U6-6(9.95mm,19.6mm) on
Minimum Solder Mask Sliver Constraint (0.247mm < 0.254mm) Between Pad R10-2(8.825mm,21.2mm) on Top Layer And Pad U6-7(9.3mm,19.6mm) on
Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R10-2(8.825mm,21.2mm) on Top Layer And Pad U6-8(8.65mm,19.6mm) on
Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R10-2(8.825mm,21.2mm) on Top Layer And Pad U6-9(8mm,19.6mm) on Top

Friday 13 Sep 2019 8:24:21 PN. Page 2 of 7

Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.254mm < 0.254mm) Between Pad R5-1(3.375mm,13mm) on Top Layer And Pad U5-3(2.649mm,14.416mm) on Minimum Solder Mask Sliver Constraint: (0.196mm < 0.254mm) Between Pad R5-1(3.375mm,13mm) on Top Layer And Pad U5-4(3.15mm,14.416mm) on Minimum Solder Mask Sliver Constraint: (0.196mm < 0.254mm) Between Pad R5-1(3.375mm,13mm) on Top Layer And Pad U5-5(3.65mm,14.416mm) on Minimum Solder Mask Sliver Constraint: (0.196mm < 0.254mm) Between Pad R5-2(1.825mm,13mm) on Top Layer And Pad U5-1(1.649mm,14.416mm) on Minimum Solder Mask Sliver Constraint: (0.196mm < 0.254mm) Between Pad R5-2(1.825mm, 13mm) on Top Layer And Pad U5-2(2.149mm, 14.416mm) on Minimum Solder Mask Sliver Constraint: (0.251mm < 0.254mm) Between Pad R6-1(3.925mm, 23.6mm) on Top Layer And Pad R7-1(5.025mm, 22.3mm) on Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R6-2(5.475mm, 23.6mm) on Top Layer And Pad R7-1(5.025mm, 22.3mm) on Minimum Solder Mask Sliver Constraint: (0.251mm < 0.254mm) Between Pad R6-2(5.475mm, 23.6mm) on Top Layer And Pad R7-2(6.575mm, 22.3mm) on Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R8-1(1.025mm, 20.2mm) on Top Layer And Pad R9-2(1.025mm, 21.5mm) on Minimum Solder Mask Sliver Constraint: (0.211mm < 0.254mm) Between Pad R8-1(1.025mm, 20.2mm) on Top Laver And Pad U5-16(1.649mm, 18.784mm) Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R8-2(2.575mm, 20.2mm) on Top Layer And Pad R9-1(2.575mm, 21.5mm) on Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad R8-2(2.575mm,20.2mm) on Top Layer And Pad U5-13(3.15mm,18.784mm) on Minimum Solder Mask Sliver Constraint: (0.196mm < 0.254mm) Between Pad R8-2(2.575mm, 20.2mm) on Top Layer And Pad U5-14(2.649mm, 18.784mm) Minimum Solder Mask Sliver Constraint: (0.196mm < 0.254mm) Between Pad R8-2(2.575mm, 20.2mm) on Top Layer And Pad U5-15(2.149mm, 18.784mm) Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad U1-1(33.655mm,9.06mm) on Top Layer And Pad U1-2(33.655mm,10.01mm) Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad U1-2(33.655mm,10.01mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad U4-1(17.425mm,18.45mm) on Top Layer And Pad U4-2(17.425mm,17.5mm) Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad U4-2(17.425mm,17.5mm) on Top Layer And Pad U4-3(17.425mm,16.55mm) Minimum Solder Mask Sliver Constraint: (0.079mm < 0.254mm) Between Pad U4-3(17.425mm,16.55mm) on Top Layer And Via (18.5mm,16.5mm) from

Friday 13 Sep 2019 8:24:21 PN Page 3 of 7

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Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)
Silk To Solder Mask Clearance Constraint: (0.15mm < 0.254mm) Between Arc (13.975mm,19.6mm) on Top Overlay And Pad C21-2(14.325mm,18.7mm)
Silk To Solder Mask Clearance Constraint: (0.139mm < 0.254mm) Between Arc (17.425mm,19.3mm) on Top Overlay And Pad R11-1(17.275mm,20mm) on
Silk To Solder Mask Clearance Constraint: (0.101mm < 0.254mm) Between Pad C10-2(19.8mm, 13.525mm) on Bottom Layer And Text "C10"
Silk To Solder Mask Clearance Constraint: (0.132mm < 0.254mm) Between Pad C1-1(25.125mm,25.4mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.132mm < 0.254mm) Between Pad C1-2(26.875mm,25.4mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.132mm < 0.254mm) Between Pad C1-2(26.875mm,25.4mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad C12-2(7.975mm,23.6mm) on Top Layer And Text "C12" (8.6mm,23.1mm) on
Silk To Solder Mask Clearance Constraint: (0.056mm < 0.254mm) Between Pad C13-1(11.7mm,30.6mm) on Top Layer And Text "C13" (10.2mm,29.2mm)
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C13-2(10.35mm, 30.6mm) on Top Layer And Text "C13" (10.2mm, 29.2mm)
Silk To Solder Mask Clearance Constraint: (0.101mm < 0.254mm) Between Pad C14-1(17.3mm.13.525mm) on Bottom Layer And Text "C14"
Silk To Solder Mask Clearance Constraint: (0.101mm < 0.254mm) Between Pad C15-1(16mm,13.525mm) on Bottom Layer And Text "C15"
Silk To Solder Mask Clearance Constraint: (0.101mm < 0.254mm) Between Pad C16-1(14.7mm,13.525mm) on Bottom Layer And Text "C16"
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C 20-1(10.9mm, 12.2mm) on Top Layer And Text "C 20" (10.6mm, 10.8mm)
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C 20-2(12.25mm, 12.2mm) on Top Layer And Text "C 20" (10.6mm, 10.8mm)
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C21-1(15.675mm, 18.7mm) on Top Layer And Text "C21"
Silk To Solder Mask Clearance Constraint: (0.179mm < 0.254mm) Between Pad C21-2(14.325mm, 18.7mm) on Top Layer And Text "C21"
Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad C21-2(14.325mm, 18.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad C 21-2(14.325mm, 18.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C23-1(8.675mm,12.1mm) on Top Layer And Text "C23" (7mm,10.7mm) on
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C23-2(7.325mm,12.1mm) on Top Layer And Text "C23" (7mm,10.7mm) on
Silk To Solder Mask Clearance Constraint: (0.243mm < 0.254mm) Between Pad C3-2(29.489mm, 7.725mm) on Top Layer And Text "C3"
Silk To Solder Mask Clearance Constraint: (0.132mm < 0.254mm) Between Pad C4-1(31.329mm, 7.663mm) on Top Layer And Text "C4"
Silk To Solder Mask Clearance Constraint: (0.132mm < 0.254mm) Between Pad C4-2(32.679mm, 7.663mm) on Top Layer And Text "C4"
Silk To Solder Mask Clearance Constraint: (0.247mm < 0.254mm) Between Pad C4-2(32.679mm, 7.663mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.247mm < 0.254mm) Between Pad C4-2(32.679mm, 7.663mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.243mm < 0.254mm) Between Pad C5-2(35.179mm, 7.725mm) on Top Layer And Text "C5"
Silk To Solder Mask Clearance Constraint: (0.225mm < 0.254mm) Between Pad C6-1(32.725mm, 29.4mm) on Top Layer And Text "12V" (32.4mm, 28.4mm)
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad C6-1(32.725mm,29.4mm) on Top Layer And Text "C6" (33mm,30.3mm) on
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad C6-2(34.475mm,29.4mm) on Top Layer And Text "C6" (33mm,30.3mm) on
Silk To Solder Mask Clearance Constraint: (0.225mm < 0.254mm) Between Pad C6-2(34.475mm, 29.4mm) on Top Layer And Text "GND" (34mm, 28.4mm)
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad C8-1(21.5mm,18.4mm) on Top Layer And Text "C8" (22.2mm,18.4mm) on
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad C8-2(21.5mm.17.05mm) on Top Layer And Text "C8" (22.2mm.18.4mm)
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C9-1(21.2mm,12.525mm) on Top Layer And Text "C7" (21.8mm,13.7mm)
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad C9-2(21.2mm,13.875mm) on Top Layer And Text "C7" (21.8mm,13.7mm)
Silk To Solder Mask Clearance Constraint: (0.239mm < 0.254mm) Between Pad CS-TP(4.2mm, 9.5mm) on Top Layer And Text "CS" (4.1mm, 8.8mm) on
Silk To Solder Mask Clearance Constraint: (0.248mm < 0.254mm) Between Pad CS-TP(4.2mm, 9.5mm) on Top Layer And Text "SCK" (3.1mm, 8.8mm) on
Silk To Solder Mask Clearance Constraint: (0.205mm < 0.254mm) Between Pad IN+-TP(18.5mm, 15.1mm) on Top Layer And Text "IN+" (15.9mm, 14.7mm)
Silk To Solder Mask Clearance Constraint: (0.182mm < 0.254mm) Between Pad IN+-TP(18.5mm,15.1mm) on Top Layer And Text "U4" (19.2mm,14.9mm)
Silk To Solder Mask Clearance Constraint: (0.253mm < 0.254mm) Between Pad IN+-TP(18.5mm, 15.1mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.031mm < 0.254mm) Between Pad IN-TP(5.2mm, 20.4mm) on Top Layer And Text "IN" (4.7mm, 20.9mm) on
Silk To Solder Mask Clearance Constraint: (0.031mm < 0.254mm) Between Pad IP-TP(3.7mm,20.4mm) on Top Layer And Text "IP" (3.2mm,20.9mm) on
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad L2-1(25.146mm, 23.436mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad L2-1(25.146mm, 23.436mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad L2-1(25.146mm,23.436mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad L2-2(25.146mm, 20.236mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.218mm < 0.254mm) Between Pad L2-2(25.146mm,20.236mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad L2-2(25.146mm, 20.236mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.135mm < 0.254mm) Between Pad LED1-1(28.55mm,27.49mm) on Top Layer And Text "LED1"
Silk To Solder Mask Clearance Constraint: (0.135mm < 0.254mm) Between Pad LED1-2(27.05mm, 27.49mm) on Top Layer And Text "LED1"
Silk To Solder Mask Clearance Constraint: (0.165mm < 0.254mm) Between Pad LED1-2(27.05mm, 27.49mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.135mm < 0.254mm) Between Pad LED2-1(24.45mm, 13.31mm) on Top Layer And Text "LED2"
Silk To Solder Mask Clearance Constraint: (0.135mm < 0.254mm) Between Pad LED2-2(25.95mm,13.31mm) on Top Layer And Text "LED2"
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Friday 13 Sep 2019 8:24:21 PN, Page 4 of 7

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Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)
Silk To Solder Mask Clearance Constraint: (0.165mm < 0.254mm) Between Pad LED2-2(25.95mm,13.31mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.194mm < 0.254mm) Between Pad MISO-TP(2.6mm, 9.5mm) on Top Layer And Text "MISO" (2.1mm, 8.8mm)
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R10-1(10.375mm,21.2mm) on Top Layer And Text "R10" (8.6mm,21.8mm)
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R10-2(8.825mm,21.2mm) on Top Layer And Text "R10" (8.6mm,21.8mm) on
Silk To Solder Mask Clearance Constraint: (0.246mm < 0.254mm) Between Pad R1-1(30.603mm,27.983mm) on Multi-Layer And Text "12V"
Silk To Solder Mask Clearance Constraint: (0.094mm < 0.254mm) Between Pad R1-1(30.603mm, 27.983mm) on Multi-Layer And Text "LED1"
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad R11-1(17.275mm,20mm) on Top Layer And Text "R11" (17.9mm,19.6mm)
Silk To Solder Mask Clearance Constraint: (0.025mm < 0.254mm) Between Pad R12-1(14.3mm,15.925mm) on Top Layer And Text "R12"
Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad R12-1(14.3mm,15.925mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R12-2(14.3mm, 17.475mm) on Top Layer And Text "C21" (14.9mm, 17.3mm)
Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad R12-2(14.3mm,17.475mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.139mm < 0.254mm) Between Pad R1-3(30.603mm, 31.533mm) on Multi-Layer And Text "IN"
Silk To Solder Mask Clearance Constraint: (0.134mm < 0.254mm) Between Pad R1-4(36.703mm, 31.533mm) on Multi-Layer And Text "IP"
Silk To Solder Mask Clearance Constraint: (0.164mm < 0.254mm) Between Pad R1-5(13.503mm, 9.433mm) on Multi-Layer And Text "C16"
Silk To Solder Mask Clearance Constraint: (0.185mm < 0.254mm) Between Pad R1-5(13.503mm, 9.433mm) on Multi-Layer And Text "C20"
Silk To Solder Mask Clearance Constraint: (0.172mm < 0.254mm) Between Pad R3-1(25.8mm,27.5mm) on Top Layer And Text "LED1" (26.4mm,28.1mm)
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R3-1(25.8mm,27.5mm) on Top Layer And Text "R3" (24.4mm,28.1mm) on
Silk To Solder Mask Clearance Constraint: (0.11mm < 0.254mm) Between Pad R3-1(25.8mm, 27.5mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R3-2(24.25mm, 27.5mm) on Top Layer And Text "R3" (24.4mm, 28.1mm) on
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R4-1(27.325mm,13.3mm) on Top Layer And Text "R4" (27.5mm,11.9mm) on
Silk To Solder Mask Clearance Constraint: (0.235mm < 0.254mm) Between Pad R4-1(27.325mm,13.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R4-2(28.875mm,13.3mm) on Top Layer And Text "R4" (27.5mm,11.9mm) on
Silk To Solder Mask Clearance Constraint: (0.144mm < 0.254mm) Between Pad R4-2(28.875mm, 13.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.197mm < 0.254mm) Between Pad R4-2(28.875mm,13.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad R5-1(3.375mm, 13mm) on Top Layer And Text "R5" (4mm, 12.6mm) on Top
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R6-1(3.925mm,23.6mm) on Top Layer And Text "R6" (4mm,24.2mm) on Top
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R6-2(5.475mm,23.6mm) on Top Layer And Text "R6" (4mm,24.2mm) on Top
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R7-1(5.025mm,22.3mm) on Top Layer And Text "IN" (4.7mm,20.9mm) on
Silk To Solder Mask Clearance Constraint: (Collision < 0.254mm) Between Pad R7-1(5.025mm,22.3mm) on Top Layer And Text "R7" (3.2mm,21.9mm) on
Silk To Solder Mask Clearance Constraint: (0.231mm < 0.254mm) Between Pad R7-2(6.575mm,22.3mm) on Top Layer And Text "IN" (4.7mm,20.9mm) on
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad R9-1(2.575mm,21.5mm) on Top Layer And Text "IP" (3.2mm,20.9mm) on
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad R9-1(2.575mm, 21.5mm) on Top Layer And Text "R7" (3.2mm, 21.9mm) on
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R9-1(2.575mm,21.5mm) on Top Layer And Text "R8" (1.3mm,22.1mm) on
Silk To Solder Mask Clearance Constraint: (0.1mm < 0.254mm) Between Pad R9-2(1.025mm,21.5mm) on Top Layer And Text "R8" (1.3mm,22.1mm) on
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad TP3-TP(37.206mm,13.3mm) on Top Layer And Text "12V"
Silk To Solder Mask Clearance Constraint: (0.234mm < 0.254mm) Between Pad TP3-TP(37.206mm, 13.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad U1-1(33.655mm,9.06mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad U1-1(33.655mm,9.06mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad U1-2(33.655mm,10.01mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad U1-3(33.655mm,10.96mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad U1-3(33.655mm,10.96mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad U1-4(31.355mm.10.96mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad U1-4(31.355mm, 10.96mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.254mm) Between Pad U1-5(31.355mm, 9.06mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad U1-5(31.355mm, 9.06mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.203mm < 0.254mm) Between Pad U2-1(28.096mm, 22.85mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.247mm < 0.254mm) Between Pad U2-2(28.096mm, 20.31mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.247mm < 0.254mm) Between Pad U2-4(28.096mm.15.23mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.243mm < 0.254mm) Between Pad U2-5(38.006mm, 15.23mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.243mm < 0.254mm) Between Pad U2-8(38.006mm, 22.85mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.222mm < 0.254mm) Between Pad U4-1(17.425mm, 18.45mm) on Top Layer And Text "C21"
Silk To Solder Mask Clearance Constraint: (0.136mm < 0.254mm) Between Pad U4-2(17.425mm, 17.5mm) on Top Layer And Text "C21" (14.9mm, 17.3mm)
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Friday 13 Sep 2019 8:24:21 PN, Page 5 of 7

Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)
Silk To Solder Mask Clearance Constraint: (0.249mm < 0.254mm) Between Pad U5-6(4.151mm,14.416mm) on Top Layer And Text "R5" (4mm,12.6mm) on
Silk To Solder Mask Clearance Constraint: (0.249mm < 0.254mm) Between Pad U5-8(5.151mm,14.416mm) on Top Layer And Text "R5" (4mm,12.6mm) on
Silk To Solder Mask Clearance Constraint: (0.063mm < 0.254mm) Between Pad VREF-TP(18.5mm,13.6mm) on Top Layer And Text "VREF"
Silk To Solder Mask Clearance Constraint: (0.225mm < 0.254mm) Between Pad XFMR1-1(13.254mm,31.854mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-10(22.004mm,24.234mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-10(22.004mm,24.234mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-11(22.004mm,25.504mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-11(22.004mm,25.504mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-12(22.004mm,26.774mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-12(22.004mm,26.774mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-13(22.004mm,28.044mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-13(22.004mm,28.044mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-14(22.004mm,29.314mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-14(22.004mm,29.314mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-15(22.004mm,30.584mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-15(22.004mm,30.584mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-16(22.004mm,31.854mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-16(22.004mm,31.854mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-2(13.254mm, 30.584mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.241mm < 0.254mm) Between Pad XFMR1-3(13.254mm,29.314mm) on Top Layer And Text "C13"
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-3(13.254mm,29.314mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-4(13.254mm,28.044mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-5(13.254mm,26.774mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-6(13.254mm,25.504mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-7(13.254mm,24.234mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.228mm < 0.254mm) Between Pad XFMR1-8(13.254mm,22.964mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.226mm < 0.254mm) Between Pad XFMR1-9(22.004mm,22.964mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.238mm < 0.254mm) Between Pad XFMR1-9(22.004mm,22.964mm) on Top Layer And Track

Friday 13 Sep 2019 8:24:21 PN. Page 6 of 7

Silk to Silk (Clearance=0.254mm) (All),(All) Silk To Silk Clearance Constraint: (0.237mm < 0.254mm) Between Arc (17.425mm,19.3mm) on Top Overlay And Text "R11" (17.9mm,19.6mm) on Top Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Arc (28.596mm,24.89mm) on Top Overlay And Text "C1" (27.871mm,25.376mm) on Top Silk To Silk Clearance Constraint: (0.176mm < 0.254mm) Between Text "12V" (37.846mm,14.648mm) on Top Overlay And Text "C2" (37.706mm,11.2mm) Silk To Silk Clearance Constraint: (0.25mm < 0.254mm) Between Text "C14" (16.9mm, 10.9mm) on Bottom Overlay And Text "R2" (18.1mm, 10.9mm) on Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "C7" (21.8mm,13.7mm) on Top Overlay And Text "C9" (22.8mm,13.7mm) on Top Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "C9" (22.8mm,13.7mm) on Top Overlay And Text "LED2" (23.8mm,11.9mm) on Top Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "CS" (4.1mm,8.8mm) on Top Overlay And Text "SCK" (3.1mm,8.8mm) on Top Silk To Silk Clearance Constraint: (0.179mm < 0.254mm) Between Text "IN" (4.7mm, 20.9mm) on Top Overlay And Text "IP" (3.2mm, 20.9mm) on Top Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "IP" (3.2mm, 20.9mm) on Top Overlay And Text "R7" (3.2mm, 21.9mm) on Top Silk To Silk Clearance Constraint: (0.039mm < 0.254mm) Between Text "L2" (24.6mm, 18.2mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Text "L2" (24.6mm,18.2mm) on Top Overlay And Track (24mm,18mm)(39.5mm,18mm) Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "LED1" (26.4mm, 28.1mm) on Top Overlay And Text "PWR" (25.3mm, 29.1mm) on Silk To Silk Clearance Constraint: (0.02mm < 0.254mm) Between Text "LED1" (26.4mm, 28.1mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.02mm < 0.254mm) Between Text "LED2" (23.8mm,11.9mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "MISO" (2.1mm,8.8mm) on Top Overlay And Text "MOSI" (1.1mm,8.8mm) on Top Silk To Silk Clearance Constraint: (0.05mm < 0.254mm) Between Text "MISO" (2.1mm,8.8mm) on Top Overlay And Text "SCK" (3.1mm,8.8mm) on Top Silk To Silk Clearance Constraint: (0.053mm < 0.254mm) Between Text "PWR" (25.3mm,29.1mm) on Top Overlay And Text "R3" (24.4mm,28.1mm) on Top Silk To Silk Clearance Constraint: (0.25mm < 0.254mm) Between Text "R12" (13.9mm, 15.4mm) on Top Overlay And Text "VREF" (15.1mm, 13.2mm) on Silk To Silk Clearance Constraint: (0.15mm < 0.254mm) Between Text "R12" (13.9mm, 15.4mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.157mm < 0.254mm) Between Text "R12" (13.9mm, 15.4mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.15mm < 0.254mm) Between Text "R8" (1.3mm,22.1mm) on Top Overlay And Text "R9" (1.3mm,23.2mm) on Top Silk To Silk Clearance Constraint: (0.075mm < 0.254mm) Between Text "U4" (19.2mm, 14.9mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.095mm < 0.254mm) Between Text "U4" (19.2mm, 14.9mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.052mm < 0.254mm) Between Text "U5" (0.2mm, 17.2mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0.252mm < 0.254mm) Between Text "U6" (6mm,17.2mm) on Top Overlay And Track Silk To Silk Clearance Constraint: (0mm < 0.254mm) Between Text "U6" (6mm.17.2mm) on Top Overlay And Track (6.975mm.14.8mm)(6.975mm.18.5mm)

Friday 13 Sep 2019 8:24:21 PN: Page 7 of 7