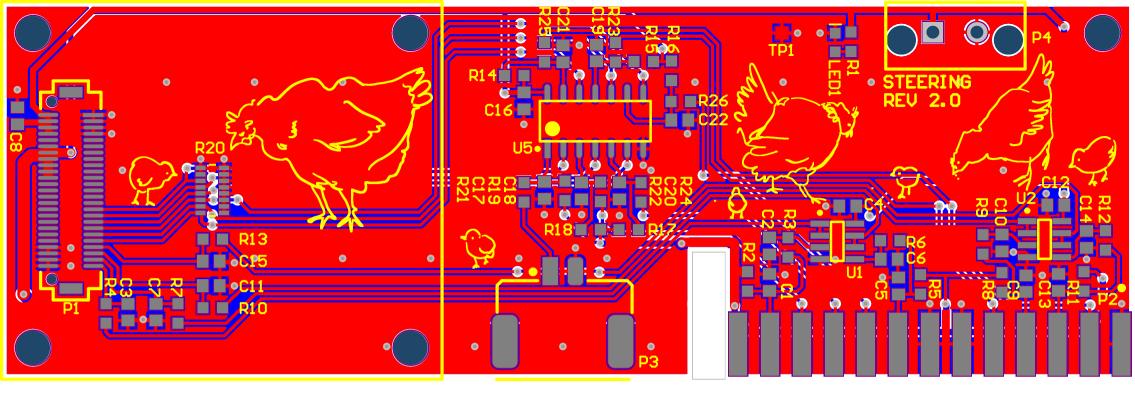
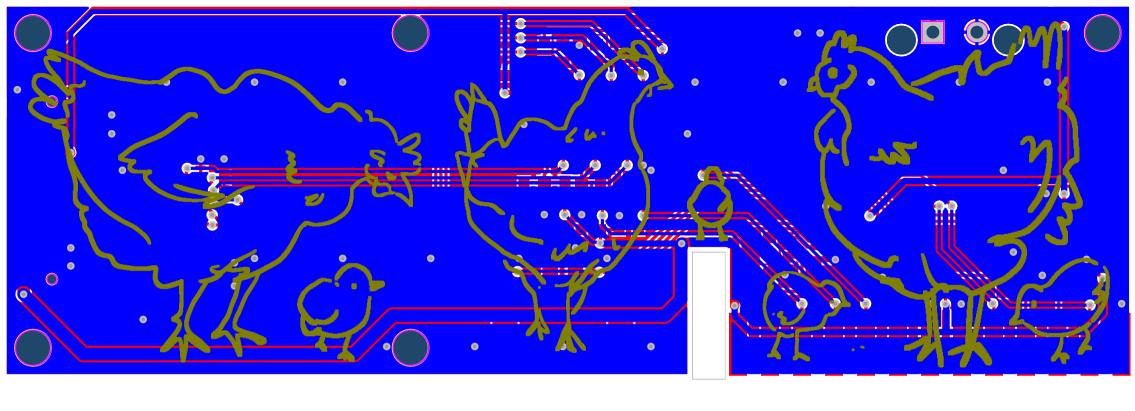


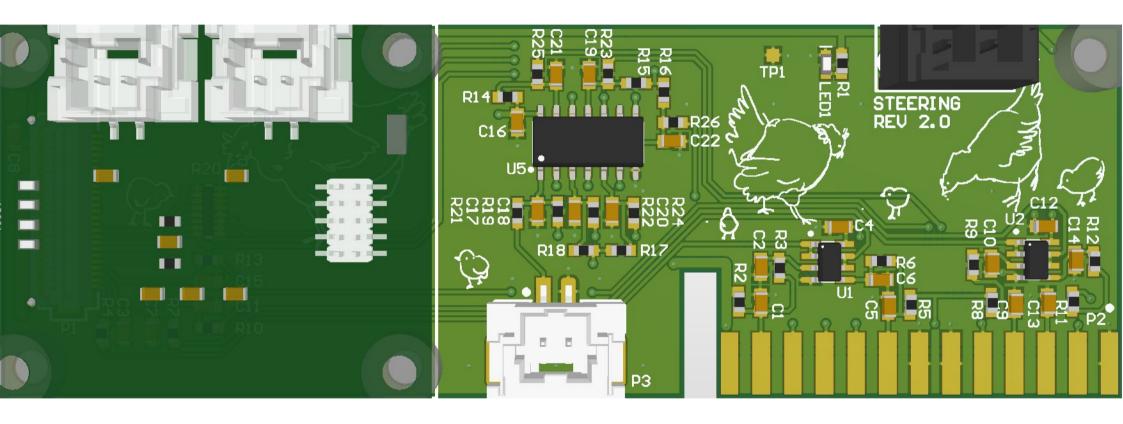
Bill of Materials			
Project: SXII_SteeringWheelInterfaceBoard.Pr			
Revision:	2		
Project Lead:	Jenny Xia		
Generated On:	2019-01-17 18:20		
Production Quantity:	1		
Currency	CAD		
Total Parts Count:	55		



LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtotal 1
CAP CER 10nF 50V 5% X7R 0603	C1	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C2	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 10nF 50V 5% X7R 0603	C3	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C4	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 10nF 50V 5% X7R 0603	C5	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C6	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 10nF 50V 5% X7R 0603	C7	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 4.7UF 25V 10% X5R 0603	C8	Murata	GRM188R61E475KE11D	Digi-Key	490-7203-1-ND	0.49201	1	\$ 0.49
CAP CER 10nF 50V 5% X7R 0603	C9	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C10	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 10nF 50V 5% X7R 0603	C11	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C12	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 10nF 50V 5% X7R 0603	C13	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C14	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 10nF 50V 5% X7R 0603	C15	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.49201	1	\$ 0.49
CAP CER 0.1UF 50V 10% X7R 0603	C16	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 0.1UF 50V 10% X7R 0603	C17	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 0.1UF 50V 10% X7R 0603	C18	•	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 0.1UF 50V 10% X7R 0603	C19	Kyocera AVX Kyocera AVX	06035C-104KAT2A	Digi-Key Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 0.1UF 50V 10% X7R 0603	C20	Kyocera AVX	06035C-104KAT2A	Digi-Key Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 0.1UF 50V 10% X/R 0603	C21	Kyocera AVX Kyocera AVX	06035C-104KAT2A	Digi-Key Digi-Key	478-5052-1-ND	0.22606	1	\$ 0.23
CAP CER 0.10F 50V 10% X/R 0603	C22	,	06035C-104KAT2A	,	478-5052-1-ND	0.22606	1	\$ 0.23
		Kyocera AVX		Digi-Key			· ·	*
LED GREEN CLEAR 2V 0603	LED1 P1	Wurth Electronics	150060VS75000	Digi-Key	732-4980-1-ND	0.18617	1	\$ 0.19
CONN 50POS Bergstak Plug 0.02"		Amphenol FCI	10132797-055100LF	Digi-Key	609-5226-1-ND	4.04	4	.
CONN 2POS DURA-CLIK 0.079" VERT	P3	Molex	560020-0220	Digi-Key	WM10862CT-ND	1.04	1	\$ 1.04
CONN 2POS ULTRA-FIT 0.138"	P4	Molex	1722861302	Digi-Key	WM11673-ND	1.94	1	\$ 1.94 \$ 0.13
RES 4.7K OHM 1% 1/10W 0603	R1	Yageo	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND	0.13298	1	ψ 0.10
RES SMD 1K OHM 0.1% 1/10W 0603	R2	Panasonic	ERA3AEB102V	Digi-Key	P1.0KDBCT-ND	0.46541	1	* ****
RES SMD 15K OHM 1% 1/10W 0603	R3	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES 100 OHM 1% 1/10W 0603	R4	Yageo	RC0603FR-07100RL	Digi-Key	311-100HRCT-ND	0.13298	1	\$ 0.13
RES SMD 1K OHM 0.1% 1/10W 0603	R5	Panasonic	ERA3AEB102V	Digi-Key	P1.0KDBCT-ND	0.46541	1	\$ 0.47
RES SMD 15K OHM 1% 1/10W 0603	R6	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES 100 OHM 1% 1/10W 0603	R7	Yageo	RC0603FR-07100RL	Digi-Key	311-100HRCT-ND	0.13298	1	\$ 0.13
RES SMD 1K OHM 0.1% 1/10W 0603	R8	Panasonic	ERA3AEB102V	Digi-Key	P1.0KDBCT-ND	0.46541	1	\$ 0.47
RES SMD 15K OHM 1% 1/10W 0603	R9	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES 100 OHM 1% 1/10W 0603	R10	Yageo	RC0603FR-07100RL	Digi-Key	311-100HRCT-ND	0.13298	1	\$ 0.13
RES SMD 1K OHM 0.1% 1/10W 0603	R11	Panasonic	ERA3AEB102V	Digi-Key	P1.0KDBCT-ND	0.46541	1	\$ 0.47
RES SMD 15K OHM 1% 1/10W 0603	R12	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES 100 OHM 1% 1/10W 0603	R13	Yageo	RC0603FR-07100RL	Digi-Key	311-100HRCT-ND	0.13298	1	\$ 0.13
RES 10K OHM 1% 1/10W 0603	R14	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.13298	1	\$ 0.13
RES 10K OHM 1% 1/10W 0603	R15	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.13298	1	\$ 0.13
RES 10K OHM 1% 1/10W 0603	R16	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.13298	1	\$ 0.13
RES 10K OHM 1% 1/10W 0603	R17	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.13298	1	\$ 0.13
RES 10K OHM 1% 1/10W 0603	R18	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.13298	1	\$ 0.13
RES 10K OHM 1% 1/10W 0603	R19	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.13298	1	\$ 0.13
RES ARRAY 10K OHM 5% 8RES EXB-2HV103JV	R20	Panasonic	EXB2HV103JV	Digi-Key	Y1103CT-ND	0.38563	1	\$ 0.39
RES SMD 15K OHM 1% 1/10W 0603	R21	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES SMD 15K OHM 1% 1/10W 0603	R22	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES SMD 15K OHM 1% 1/10W 0603	R23	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES SMD 15K OHM 1% 1/10W 0603	R24	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES SMD 15K OHM 1% 1/10W 0603	R25	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
RES SMD 15K OHM 1% 1/10W 0603	R26	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.13298	1	\$ 0.13
IC OP AMP DUAL GP RR 10MHZ 8-VSSOP	U1	Texas Instruments	OPA2197IDGKR	Digi-Key	296-47349-1-ND	3.2	1	\$ 3.20
IC OP AMP DUAL GP RR 10MHZ 8-VSSOP	U2	Texas Instruments	OPA2197IDGKR	Digi-Key	296-47349-1-ND	3.2	1	\$ 3.20
IC INVERTER SCHMITT 6CH 14TSSOP	U5	STMicroelectronics	M74HC14YTTR	Digi-Key	497-14387-1-ND	0.58509	1	\$ 0.59
	•		·		1		Total:	\$ 22.56







Electrical Rules Check Report

Class	Document	Message
Error	Steering Wheel Carrier Board	Duplicate Net Names Wire PB1_HORN
	Mezzanine.SchDoc	Dapinatio Hot Hamos Hills I Di_Hot Hill
Warning	Steering Wheel Interface Digital	Floating Net Label PB1_HORN at (1059,740)
	Inputs.SchDoc	J -
Error	Steering Wheel Interface Analog	Net CC_CANCEL/RESUME contains multiple Input Ports (Port CC_CANCEL/RESUME,Port
	Inputs.SchDoc	CC_CANCEL/RESUME)
Error	Steering Wheel Interface Analog	Net CC_DISTANCE contains multiple Input Ports (Port CC_DISTANCE,Port CC_DISTANCE)
	Inputs.SchDoc	
Error	Steering Wheel Interface Digital	Net CC_ON/O\F\F\ contains multiple Input Ports (Port CC_ON/O\F\FPort CC_ON/O\F\F\)
	Inputs.SchDoc	
Error	Steering Wheel Interface Digital	Net CC_SET contains multiple Input Ports (Port CC_SET,Port CC_SET)
	Inputs.SchDoc	
Error	Steering Wheel Interface Analog	Net CC_SPEED contains multiple Input Ports (Port CC_SPEED,Port CC_SPEED)
	Inputs.SchDoc	
Error	Steering Wheel Interface Digital	Net HIGH_BEAM_BACK contains multiple Input Ports (Port HIGH_BEAM_BACK,Port
	Inputs.SchDoc	HIGH_BEAM_BACK)
Error	Steering Wheel Interface Digital	Net HIGH_BEAM_FWD contains multiple Input Ports (Port HIGH_BEAM_FWD,Port
_	Inputs.SchDoc	HIGH_BEAM_FWD)
Error	Steering Wheel Carrier Board	Net HORN contains multiple Input Ports (Port HORN,Port HORN)
	Mezzanine.SchDoc	Not LANE ACCICE contains modified from Dorto (Dort LANE ACCICE Dort LANE ACCICE)
Error	Steering Wheel Interface Digital	Net LANE_ASSIST contains multiple Input Ports (Port LANE_ASSIST,Port LANE_ASSIST)
Morning	Inputs.SchDoc	Not NotC2, 1 has no driving course (Din C2, 1 Din D2, 1 Din L1, 2)
Warning	Steering Wheel Interface Analog	Net NetC2_1 has no driving source (Pin C2-1,Pin R3-1,Pin U1-3)
Warning	Inputs.SchDoc Steering Wheel Interface Analog	Net NetC6_1 has no driving source (Pin C6-1,Pin R6-1,Pin U1-5)
warriirig	Inputs.SchDoc	Net NetCo_1 flas flo driving source (Fill Co-1,Fill Ko-1,Fill O1-3)
Warning	Steering Wheel Interface Analog	Net NetC10_1 has no driving source (Pin C10-1,Pin R9-1,Pin U2-3)
VVarring	Inputs.SchDoc	Net Nete 10_1 has no uniting source (i in e 10-1,i in 147-1,i in 02-3)
Warning	Steering Wheel Interface Analog	Net NetC14_1 has no driving source (Pin C14-1,Pin R12-1,Pin U2-5)
VVarriing	Inputs.SchDoc	Net Neto 14_1 has no arrang source (i iii o 14 1/1 iii N 12 1/1 iii o 2 3)
Error	Steering Wheel Carrier Board	Net PA8 has only one pin (Pin P1-7)
	Mezzanine.SchDoc	,,,,
Error	Steering Wheel Carrier Board	Net PA9 has only one pin (Pin P1-6)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PA10 has only one pin (Pin P1-5)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PA15/LED_RED has only one pin (Pin P1-39)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PB2 has only one pin (Pin P1-15)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PB3/LED_GREEN has only one pin (Pin P1-38)
	Mezzanine.SchDoc	N - DD // ED DILIE
Error	Steering Wheel Carrier Board	Net PB4/LED_BLUE has only one pin (Pin P1-37)
Error	Mezzanine.SchDoc Steering Wheel Carrier Board	Net PB5/LED_BLUE has only one pin (Pin P1-36)
Error	Mezzanine.SchDoc	iver FB3/LLD_DLUE Has utily utile pitt (Pitt P1-30)
Error	Steering Wheel Carrier Board	Net PB6/USART1_TX has only one pin (Pin P1-34)
- 1101	Mezzanine.SchDoc	MOLT BOYUSANTI_TATIOS ONLY ONE PINT (FINTETS4)
Error	Steering Wheel Carrier Board	Net PB7/USART1_RX has only one pin (Pin P1-33)
-1101	Mezzanine.SchDoc	Het Direction I I to has only one pill (i iii 1-30)
Error	Steering Wheel Carrier Board	Net PB8/I2C1_SCL has only one pin (Pin P1-32)
	Mezzanine.SchDoc	23.23.202.000 sy sy sy sy
Error	Steering Wheel Carrier Board	Net PB9/I2C1_SDA has only one pin (Pin P1-31)
	Mezzanine.SchDoc	_ , , , ,
Error	Steering Wheel Carrier Board	Net PB10/USART3_TX/I2C2_SCL has only one pin (Pin P1-14)
	Mezzanine.SchDoc	, , , ,
Error	Steering Wheel Carrier Board	Net PB11/USART3_RX/I2C2_SDA has only one pin (Pin P1-13)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PB12/SPI2_NSS has only one pin (Pin P1-11)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PB13/SPI2_SCK has only one pin (Pin P1-10)

Class	Document	Message
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PB14/SPI2_MISO has only one pin (Pin P1-9)
	Mezzanine.SchDoc	• •
Error	Steering Wheel Carrier Board	Net PB15/SPI2_MOSI has only one pin (Pin P1-8)
	Mezzanine.SchDoc	
Error	Steering Wheel Carrier Board	Net PC13 has only one pin (Pin P1-30)
	Mezzanine.SchDoc	
Error	Steering Wheel Interface Analog	Net TURN_SIGNAL_STALK contains multiple Input Ports (Port TURN_SIGNAL_STALK,Port
	Inputs.SchDoc	TURN_SIGNAL_STALK)
Warning	Steering Wheel Interface Digital	Off grid Net Label PB1_HORN at 10590.49mil,7400mil
	Inputs.SchDoc	

Design Rules Verification ReportFilename : C:\Users\jieni\Documents\Github\hardware\MSXII_SteeringWheelInterfaceBoard\ Warnings 0 Rule Violations 89

Warnings Total

Rule Violations	
Clearance Constraint (Gap=0.152mm) (All),(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=2.54mm) (Preferred=0.254mm) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Minimum Annular Ring (Minimum=0.06mm) (All)	0
Hole Size Constraint (Min=0.3mm) (Max=6.3mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0mm) (All),(All)	0
Silk To Solder Mask (Clearance=0.178mm) (IsPad),(All)	52
Silk to Silk (Clearance=0.254mm) (All),(All)	6
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (All)	31
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	89

Silk To Solder Mask (Clearance=0.178mm) (IsPad),(All)
Silk To Solder Mask Clearance Constraint: (0.125mm < 0.178mm) Between Pad C13-1(84mm,7mm) on Top Layer And Text "C13" (82.5mm,7.75mm) on
Silk To Solder Mask Clearance Constraint: (0.175mm < 0.178mm) Between Pad C13-1(84mm,7mm) on Top Layer And Text "R11" (84.75mm,7.75mm) on
Silk To Solder Mask Clearance Constraint: (0.175mm < 0.178mm) Between Pad C3-1(10.034mm,6mm) on Top Layer And Text "C3" (9.5mm,7.95mm) on
Silk To Solder Mask Clearance Constraint: (0.092mm < 0.178mm) Between Pad C7-1(12.25mm,6mm) on Top Layer And Text "C7" (11.75mm,7.95mm) on
Silk To Solder Mask Clearance Constraint: (0.005mm < 0.178mm) Between Pad C9-1(81.38mm,6.915mm) on Top Layer And Text "C9" (80mm,7.75mm) or
Silk To Solder Mask Clearance Constraint: (0.122mm < 0.178mm) Between Pad C9-2(81.38mm,8.265mm) on Top Layer And Text "C9" (80mm,7.75mm) or
Silk To Solder Mask Clearance Constraint: (0.163mm < 0.178mm) Between Pad P3-3(40mm,3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad R11-2(86mm,7mm) on Top Layer And Text "R11" (84.75mm,7.75mm) on
Silk To Solder Mask Clearance Constraint: (0.105mm < 0.178mm) Between Pad R23-2(48.763mm,26.762mm) on Top Layer And Text "R23"
Silk To Solder Mask Clearance Constraint: (0.138mm < 0.178mm) Between Pad R25-2(43.125mm,26.73mm) on Top Layer And Text "R25"
Silk To Solder Mask Clearance Constraint: (0.117mm < 0.178mm) Between Pad R4-1(8.284mm,6mm) on Top Layer And Text "R4" (8.25mm,7.95mm) on
Silk To Solder Mask Clearance Constraint: (0.105mm < 0.178mm) Between Pad R6-2(71.395mm,11.025mm) on Top Layer And Text "R6" (72mm,10.5mm)
Silk To Solder Mask Clearance Constraint: (0.117mm < 0.178mm) Between Pad R7-1(14mm,6mm) on Top Layer And Text "R7" (13.5mm,7.95mm) on Top
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad R8-2(79.5mm,6.915mm) on Top Layer And Text "C9" (80mm,7.75mm) on
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-1(65.025mm,12.375mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-1(65.025mm,12.375mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-2(65.025mm,11.425mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-3(65.025mm,10.475mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-4(65.025mm,9.525mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-4(65.025mm,9.525mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-5(67.775mm,9.525mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-5(67.775mm,9.525mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-6(67.775mm,10.475mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U1-7(67.775mm,11.425mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.08mm < 0.178mm) Between Pad U1-8(67.775mm,12.375mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.08mm < 0.178mm) Between Pad U1-8(67.775mm,12.375mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-1(81.5mm,12.541mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-1(81.5mm,12.541mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-2(81.5mm,11.591mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-3(81.5mm,10.641mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-4(81.5mm,9.691mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-4(81.5mm,9.691mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-5(84.25mm,9.691mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-5(84.25mm,9.691mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-6(84.25mm,10.641mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.05mm < 0.178mm) Between Pad U2-7(84.25mm,11.591mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.08mm < 0.178mm) Between Pad U2-8(84.25mm,12.541mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (0.08mm < 0.178mm) Between Pad U2-8(84.25mm,12.541mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-1(43.363mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-10(48.443mm,22.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-11(47.173mm,22.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-12(45.903mm,22.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-13(44.633mm,22.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-14(43.363mm,22.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-2(44.633mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-3(45.903mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-4(47.173mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-5(48.443mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-6(49.713mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-7(50.983mm,18.3mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-8(50.983mm,22.7mm) on Top Layer And Track
Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-9(49.713mm,22.7mm) on Top Layer And Track

Thursday 17 Jan 2019 6:20:58 PN. Page 2 of 3

Silk to Silk (Clearance=0.254mm) (All),(All)

Silk To Silk Clearance Constraint: (0.18mm < 0.254mm) Between Arc (42.588mm,18.3mm) on Top Overlay And Text "U5" (40.75mm,18mm) on Top Silk To Silk Clearance Constraint: (0.15mm < 0.254mm) Between Region (2 hole(s)) Top Overlay And Text "U2" (80.75mm,14mm) on Top Overlay Silk Texl Silk To Silk Clearance Constraint: (0.227mm < 0.254mm) Between Text "C20" (52.75mm,16mm) on Top Overlay And Text "R22" (51.573mm,16mm) on Top Silk To Silk Clearance Constraint: (0.048mm < 0.254mm) Between Text "P1" (5mm,5.25mm) on Top Overlay And Track (4.1mm,6.3mm)(6.9mm,6.3mm) on Silk To Silk Clearance Constraint: (0.21mm < 0.254mm) Between Text "R4" (8.25mm,7.95mm) on Top Overlay And Track (6.9mm,7.2mm)(7.9mm,7.2mm) Silk To Silk Clearance Constraint: (0.148mm < 0.254mm) Between Text "R4" (8.25mm,7.95mm) on Top Overlay And Track (7.9mm,7.2mm)(7.9mm,8.5mm)

Board Clearance Constraint (Gap=0mm) (All) Board Outline Clearance(Cutout Edge): (0.32mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Pad Board Outline Clearance(Cutout Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Cutout Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Cutout Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-1(89mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-10(66.14mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-11(63.6mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-12(61.06mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-13(58.52mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-2(86.46mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-3(83.92mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-4(81.38mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-5(78.84mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-6(76.3mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-7(73.76mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-8(71.22mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-9(68.68mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Region (0 hole(s)) Bottom Overlay Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Text "C19" (47mm,29.5mm) on Top Overlay Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Text "C21" (44.25mm,29.5mm) on Top Overlay Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Text "R23" (48.25mm,29.5mm) on Top Overlay Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Text "R25" (42.773mm,29.5mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (0mm,0mm)(0mm,30mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (0mm,0mm)(35mm,0mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (0mm,30mm)(35mm,30mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (35mm,0mm)(35mm,30mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (39.325mm, -0.02mm)(49.875mm, -0.02mm) on Top Overlav Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (70.255mm,24.64mm)(70.255mm,29.94mm) on Top Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (70.255mm,29.94mm) (78.5mm,29.94mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (77.5mm,29.94mm)(81.33mm,29.94mm) on Top Overlay Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (81.33mm,24.64mm)(81.33mm,29.94mm) on Top Overlay

Thursday 17 Jan 2019 6:20:58 PN: Page 3 of 3