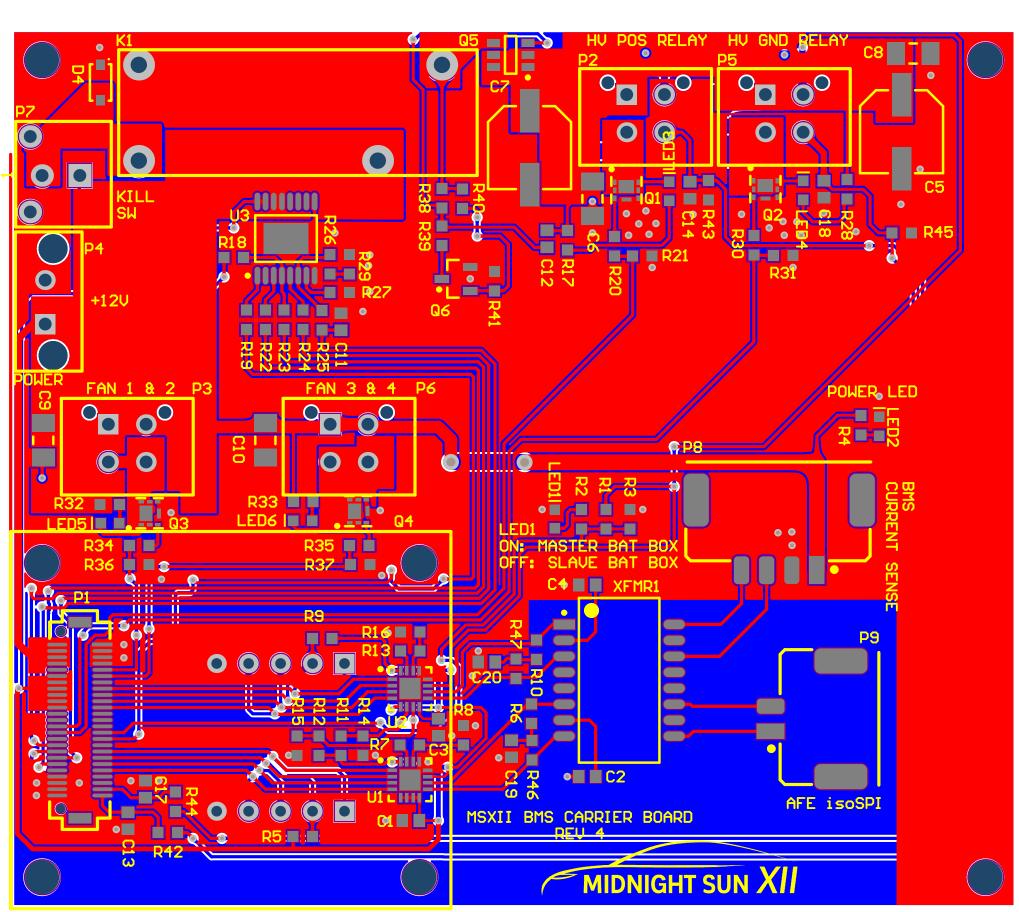
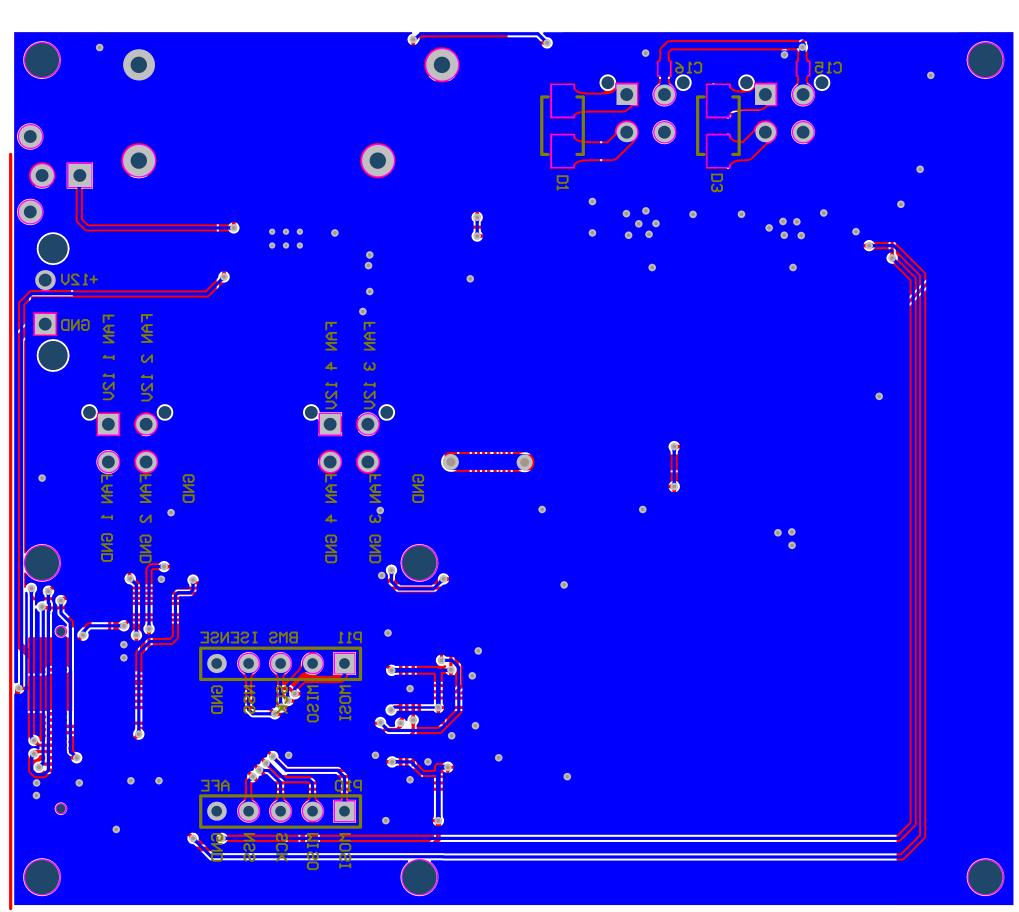


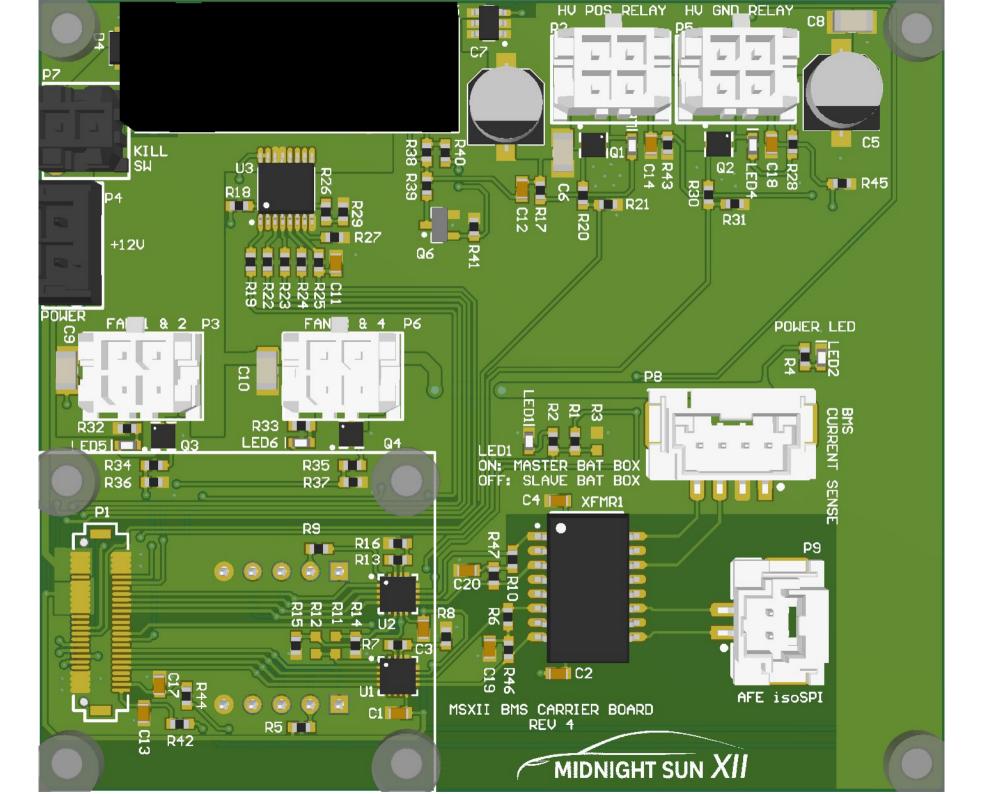
Bill of Materials				
Project:	BMS_Carrier_Board.PrjPcb			
Revision:	3.1			
Project Lead:	Taiping Li			
Generated On:	2019-03-20 12:04:54 AM			
Production Quantity:	1			
Currency	CAD			
Total Parts Count:	95			



March   Marc			•						
Company   Comp	LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtota
Company   Comp	CAP CER 0.1UF 50V 10% X7R 0603	C1	Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.21	1	\$
OPPORT   19   19   19   19   19   19   19   1		C2	Murata	GRM1885C1H200JA01D			0.13	1	\$
Company   Comp						110 0002 110			
April 1997   1									
Column   C							0.55	1	3
Control   Cont			Panasonic Panasonic				0.55	1	s
Company   Comp			Murata				****		Ť
Company			Murata	GRM31CR72A225MA73L	Digi-Key	490-12773-1-ND			
Company   Comp	CAP CER 2.2UF 100V ±20% X7R 1206								
Communication   Communicatio								1	
Control of the Cont			Murata	GRM188R61E475KE11D					
Control   Cont			Kyocera AVX	06035C-104KA12A					•
Control of the Prince   Cont								_	
Control of the Part of the P			KEMET					1	
Control of the Part Part No. 2008   Control of the Part No. 2008   Cont			Kyocera AVX					1	
Control of the first of the f	CAP CER 10nF 50V 5% X7R 0603	C18	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.48	1	\$
DODG GOLDEN DE MAN   D.   D.   D.   D.   D.   D.   D.   D								1	
DOME COLOR PROPERTY DOWN AS A DESCRIPTION OF A DESCRIPT									
DOOR ON AMP 1007 200A ACDIDO			Diodes					1	
Dec.   Control Person Annual Process   Control Person Annual Person An			Diodes					1	
Section   Company   Comp	DIODE GEN PURP 100V 300MA SOD123	D4	Diodes Zetex	1N4148W Q-7-F	Digi-Key		0.29	1	\$
LEST CALLED YORK   LEST	RELAY SPST 12V 8A OMRON	K1	Omron	G6RN-1ADC12	Digi-Key	Z2346-ND	5.42	1	S
HE PERSON CARRES   1450   1450   1500   15		LED1	Wurth Electronics	150060RS75000		732-4978-1-ND		1	
LED   LED   CARD A CARD   LED   LE			Wurth Electronics	150060VS75000		732-4980-1-ND			
LED	LED YELLOW CLEAR 2.1V 0603		Wurth Electronics	150060YS75000		732-4981-1-ND			
MODER   MARCH   MARC	LED YELLOW CLEAR 2.1V 0603		Truiti Licottonico						
COMPATION DESCRIPTION				150060YS75000 150060YS75000		732-4961-1-ND 732-4991-1-ND			
COMPACEMENT CODE   F2   Stage				10132797-0551001 F		609-5226-1-ND			
CORP #CEM MISCRETT PICE    P.   Sales   SALES ACTIVE   SALES ACT									
CORPORED MEMORY TOPS			Molex	43045-0427		WM10667-ND		1	
CON-PCM MCRIPTIFICAD   FS				1722861302	Digi-Key				\$
CONFIGNITION   PT				43045-0427	Digi-Key				
COMP   PER   Description   Per   Description   Descripti				43045-0427					
COMPANDE (CHANGE)   1977   1									
COMPRIST REPORTING OT   PT									
COMPANSON FEADMANE BT   PT									
MOSPETH CHI SVY ATA ZIW PEPCH (20)		P11	Molex	0022284050				1	
MOSFET NCH SOV 8.7 A 2 1W 6 POPN (CO)   Decoration   De		01	Infinon	IDI HEGA ASTRIDE		IRLHS6342TRPBFCT-	0.00		e
Mode	WOSFET N-CH 30V 6.7A 2.1W 6-FQFN (2X2)	ų,	Inneon	INCHORNAZ INFOR	Digi-Rey		0.09	'	٥
MOSPET NCH SIVE A TO A TAL YES OF POPUN 200	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	Q2	Infineon	IRLHS6342TRPBF	Digi-Key		0.89	1	s
Moder   Continue   C					J ,				
MOSET FINCH STATE AT ALL THE POTTERS   G. S. STATEMENTONICS   C. S.	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	Q3	Infineon	IRLHS6342TRPBF	Digi-Key		0.89	1	\$
Most Fire Polis 2014   A 2 Vitro Polis 2015									
MOSET FLORIDATION SOLD   1   3   0.87   1   5   0	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	Q4	Infineon	IRLHS6342TRPBF	Digi-Key		0.89	1	\$
RES OLD PM 164V 0930   R1	MOSFET P-CH 30V 4A 1.6W SOT-23-6	Q5	STMicroelectronics	STT4P3LLH6	Digi-Key		0.87	1	\$
RES BIOLOMIN 15 1/100/0003									
RES AT ACCIDATE STUDY 00033			Vishay Dale	CRCW06030000Z0EAHP					
RES OF CHAIN 15 (1997) 0903			Yageo	RC0603FR-07604RL					
RES Q CMAN 15 11709 0003			Yageo Phycomp						
RES 14.004 Mts 1/10/0 0030			Panasonic						
RES QUE MITS, 1100 0603 RES VADOR TO THE STORY 0603 RES VA									
RES 2X OM 1% 1/10V 0003 R10 Prinsonic EROAMEROPAL Dish Kw 3112,000 ERT NO. 0.13 1 \$ 0.13 RS S 2C OM 1% 1/10V 0003 R10 Prinsonic EROAMEROPAL Dish Kw 3112,000 ERT NO. 0.47 1 \$ 0.47 RIS S 1.40 CM 1% 1/10V 0003 R13 Yapo R10 RD Prinsonic EROAMEROPAL DISH NO. 0.47 1 \$ 0.47 RIS S 1.40 CM 1% 1/10V 0003 R13 Yapo R10 RD Prinsonic EROAMEROPAL DISH NO. 0.47 1 \$ 0.47 RIS S 1.40 CM 1% 1/10V 0003 R13 Yapo R10 RD Prinsonic EROAMEROPAL RIS S 1.40 CM 1% 1/10V 0003 R16 Yapo R10 RD Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R16 Yapo R10 RD Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R16 Yapo R10 RD Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R16 Yapo R10 RD Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R18 Yapo R10 RD Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R18 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R18 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R18 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R18 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R19 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R22 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R22 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R22 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R22 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R22 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES NO. 0.40 M 1% 1/10V 0003 R23 Yapo Prinsonic RES N		R8	Yageo	RC0603FR-07604RL		311-604HRCT-ND		1	\$
RES 1-0 CMM 154 (170V 6003 R14 Vagac R50000FR-071054, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Yageo		Digi-Key			1	
RES 0.0 CMM 15W 10F00 0030 RES 0.0 CMM 15W 10F00			Panasonic						
RES 0.0 CM 14W 9003 RES 0.0 CM 14W 9003 RES 0.0 CM 15W 10W 9003 RES 0.0 CM 15W			Yageo						
RES 407 CMM 15-1700/ 0603 RES 47K CMM 15-170									
RES 4.7K CMM 1% 11/00/ 0603 R18 Yappo Phycorp RC0007F 0767T, Dby-Key 3114-70/045C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R19 Yappo Phycorp RC0007F 0767T, Dby-Key 3114-70/045C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R19 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/045C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R20 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/045C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R20 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R20 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R21 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R22 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R22 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R22 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R23 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R26 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R26 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R26 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R27 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R27 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R27 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R29 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R29 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 4.7K CMM 1% 11/00/ 0603 R29 Yappo Phycorp RC0007F 07/67T, Dby-Key 3114-70/65C1AD 0.13 1 \$ 0.13 RES 3.7K CMM 1% 11/00/ 0603 R29 Yappo Phycorp RC0007F 07/67T, Db			Vanen						
RES 4.7K ONN 1% 1/10/W 0903   R19   Yappo Phrooms   RC0003FR-07/36/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R20   Yappo   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 10X ONN 1% 1/10/W 0903   R21   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R22   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R22   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R22   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R26   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R26   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R26   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R26   Pantonia   RES 4.7K ONN 1% 1/10/W 0903   R26   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 4.7K ONN 1% 1/10/W 0903   R28   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 2.7K ONN 1% 1/10/W 0903   R28   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 2.7K ONN 1% 1/10/W 0903   R29   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 2.7K ONN 1% 1/10/W 0903   R29   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 2.7K ONN 1% 1/10/W 0903   R29   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 2.7K ONN 1% 1/10/W 0903   R29   Yappo Phrooms   RC0003FR-07/26/TL   Dig-Key   311-47/04/8C/T-ND   0.13   1   \$   0.13   RES 2.7K ONN 1% 1/10/W			Yageo Phycomp						Š
RES 4.7K ONM 1% 1/10W 0603 R20 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 RES 10K ONM 1% 1/10W 0603 R21 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-1 00W 0603 R22 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-1 00W 0603 R23 R23 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R24 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R24 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R27 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.21 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R27 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.21 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R22 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R22 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R22 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 R22 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 R22 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-4 700FBCT-ND 0.13 1 \$ 0.13 R25 ATK ONM 1% 1/10W 0603 R23 Yabas Processor ROSCOSTR-074CT, Dig-Fey 311-1 700FBCT-ND 0.13 1 \$ 0.13 R25 R2 ONM 1% 1/10W 0603 R23 R24 Yabas ROSCOSTR-074CT, Dig-Fey	RES 4.7K OHM 1% 1/10W 0603	R18	Yageo Phycomp	RC0603FR-074K7L			0.13	1	
RES IOK OPM 1% 1/10W 0803 R21	RES 4.7K OHM 1% 1/10W 0603		Yageo Phycomp		Digi-Key		0.13	1	
RES 4.7K OHM 1% 1/10W 0903   R22   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   311-4.7KH-RCT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R24   Yasso Phicore   RC0805FR/O74KT, Dyk-Key   311-4.7KH-RCT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R25   Yasso Phicore   RC0805FR/O74KT, Dyk-Key   311-4.7KH-RCT-ND   0.13   1   \$   0.13   RES 3.3K OHM 1% 1/4W 0903   R25   Yasso Phicore   RC0805FR/O74KT, Dyk-Key   311-4.7KH-RCT-ND   0.13   1   \$   0.13   RES 3.3K OHM 1% 1/4W 0903   R26   Parasonic   ELUPAS/3301V, Dyk-Key   P3.4KF-VT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R27   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   P3.4KF-VT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R28   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   P3.4KF-VT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   311-2.7KF-RCT-ND   0.13   1   \$   0.13   RES 2.1 OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   311-2.7KF-RCT-ND   0.13   1   \$   0.13   RES 2.1 OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   311-2.7KF-RCT-ND   0.13   1   \$   0.13   RES 2.1 OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O74KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 2.1 OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O72KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O72KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O72KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 2.1 OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O72KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O72KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O70KT, Dyk-Key   311-2.0KF-RCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0903   R29   Yasso Phicore   RC0905FR/O70KT,									
RES 4.7K OHM 1% 1/10W 0903   R24   Yappo Photom   RC0805FR-074KT,   Dig-Key   311-4.7KHRET-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R25   Yappo Photom   RC0805FR-074KT,   Dig-Key   311-4.7KHRET-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R25   Yappo Photom   RC0805FR-074KT,   Dig-Key   P3.3KBVCFND   0.21   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R27   Yappo Photom   RC0805FR-074KT,   Dig-Key   P3.3KBVCFND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R27   Yappo Photom   RC0805FR-074KT,   Dig-Key   311-4.7KHRET-ND   0.13   1   \$   0.13   RES 2.7K OHM 1% 1/10W 0903   R29   Yappo Photom   RC0805FR-074KT,   Dig-Key   311-4.7KHRET-ND   0.13   1   \$   0.13   RES 2.7K OHM 1% 1/10W 0903   R29   Yappo Photom   RC0805FR-074KT,   Dig-Key   311-4.7KHRET-ND   0.13   1   \$   0.13   RES 2.7K OHM 1% 1/10W 0903   R29   Yappo Photom   RC0805FR-074KT,   Dig-Key   311-2.1KHRT-ND   0.13   1   \$   0.13   RES 2.7K OHM 1% 1/10W 0903   R31   Yappo Photom   RC0805FR-071KT,   Dig-Key   311-2.1KHRT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R31   Yappo Photom   RC0805FR-071KT,   Dig-Key   311-1.0KHRT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0903   R33   Yappo Photom   RC0805FR-071KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 2.7K OHM 1% 1/10W 0903   R33   Yappo Photom   RC0805FR-072KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 2.7K OHM 1% 1/10W 0903   R33   Yappo Photom   RC0805FR-072KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 1K OHM 1% 1/10W 0903   R35   Yappo Photom   RC0805FR-072KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 1K OHM 1% 1/10W 0903   R35   Yappo Photom   RC0805FR-072KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 1K OHM 1% 1/10W 0903   R35   Yappo Photom   RC0805FR-072KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 1K OHM 1% 1/10W 0903   R36   Yappo Photom   RC0805FR-072KT,   Dig-Key   311-1.7KHRT-ND   0.13   1   \$   0.13   RES 1K OHM 1% 1/10W 0903   R36   Yappo Photom   RC0805FR-072KT,									
RES 4.7K CMM 1% 1/10W 0803									
RES 4.7K OHM 1% 1/10W 0603   R26   Panasonic   EXUPASTSSIV   Dig-Key   P3.8KOCTAND   0.31   1   5   0.33   1   5   0.33   RES 4.7K OHM 1% 1/10W 0603   R27   Yasso Phycorno   RC0605FR.074KT,   Dig-Key   P3.8KOCTAND   0.31   1   5   0.33   RES 4.7K OHM 1% 1/10W 0603   R27   Yasso Phycorno   RC0605FR.074KT,   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.33   RES 4.7K OHM 1% 1/10W 0603   R29   Yasso   RC0605FR.074KT,   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 2K OHM 1% 1/10W 0603   R30   Yasso Phycorno   RC0605FR.074KL   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 2K OHM 1% 1/10W 0603   R31   Yasso Phycorno   RC0605FR.074KL   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 4.7K OHM 1% 1/10W 0603   R31   Yasso Phycorno   RC0605FR.074KL   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 4.7K OHM 1% 1/10W 0603   R33   Yasso Phycorno   RC0605FR.074KL   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 4.7K OHM 1% 1/10W 0603   R33   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 2K OHM 1% 1/10W 0603   R33   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 2K OHM 1% 1/10W 0603   R34   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 2K OHM 1% 1/10W 0603   R35   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 1K OHM 1% 1/10W 0603   R36   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 1K OHM 1% 1/10W 0603   R36   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 1K OHM 1% 1/10W 0603   R36   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 1K OHM 1% 1/10W 0603   R36   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   RES 1K OHM 1% 1/10W 0603   R36   Yasso Phycorno   RC0605FR.074KT   Dig-Key   3114.7KOFRCT-ND   0.13   1   5   0.13   R36   Yasso Phycorno   RC0605FR.074KT   Dig-Key									
RES 4.7K CMM 1% 1/10W 0603   R26	RES 4.7K OHM 1% 1/10W 0603			RC0603FR-074K7L		311-4.70KHRCT-ND	0.13		\$
RES 4.7K CHM 1% 1/10W 0903 R29 Yagoo Phycorp RC0005FR C74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 2x CHM 1% 1/10W 0903 R30 Yagoo RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 1x CHM 1% 1/10W 0903 R31 Yagoo Phycorp RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 1x CHM 1% 1/10W 0903 R31 Yagoo Phycorp RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 4.7K CHM 1% 1/10W 0903 R33 Yagoo Phycorp RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 2x CHM 1% 1/10W 0903 R33 Yagoo Phycorp RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 2x CHM 1% 1/10W 0903 R34 Yagoo RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 2x CHM 1% 1/10W 0903 R35 Yagoo RC0005FR 0/74K7L Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 2x CHM 1% 1/10W 0903 R35 Yagoo RC0005FR 0/74K1 Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R36 Yagoo RC0005FR 0/74K1 Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R36 Yagoo Phycorp RC0005FR 0/74K1 Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R36 Yagoo Phycorp RC0005FR 0/74K1 Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R36 Yagoo Phycorp RC0005FR 0/74K1 Dight 5y 3114.7WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R36 Yagoo Phycorp RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R38 TE Connectivity CRC00000730R Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R38 Yagoo Phycorp RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R41 Yagoo Phycorp RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R42 Yagoo RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R42 Yagoo RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R42 Yagoo RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R44 Yagoo RC0005FR 0/74K1 Dight 5y 3114.0WHRCTHND 0.13 1 \$ 0.13 RES 10K 0-M 1% 1/10W 0903 R44 Yagoo RC0005FR 0/74K1 Dight 5									
RES 2K OHM 1% 1/10W 0603 R90 Yasse RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R91 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R91 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R91 Yasse Phicornic RC0600FR-0726L Dis-Key 311-1 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R93 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R93 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R95 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R95 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R95 Yasse Phicornic RC0600FR-0726L Dis-Key 311-2 (MERCILIND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R95 Yasse Phicornic RC0600FR-0726R (CMM 1% 1/10W 0603 R95 Yasse Phicornic RC0600FR-0716L Dis-Key 311-1000FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse Phicornic RC0600FR-0716L Dis-Key 311-1000FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FR-0716L Dis-Key 311-1000FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FR-0716L Dis-Key 311-1000FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FR-0716L Dis-Key 311-1000FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FR-0716L Dis-Key 311-1000FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FRCT-ND 0.13 I \$ 0.13 R85 (CMM 1% 1/10W 0603 R94 Yasse R0060FRCT-				RC0603FR-074K7L		311-4.70KHRCT-ND			
RES 22.1 CPM 1% 1/10W 0603 R31 Yano Phroomp RC0005FR-072R1L Dight(r) 311-0.0140FCT-ND 0.13 1 \$ 0.13 R5 S C C C C C C C C C C C C C C C C C C			Yageo Phycomp	PC0603FR-074K7L					
RES 10K OHM 1% 1/10W 0603   R31   Yasso Phycorop   RC0005FR 0710K,   Dig-Key   311+2/06FRCT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0603   R32   Yasso Phycorop   RC0005FR 0714KT,   Dig-Key   311+2/06FRCT-ND   0.13   1   \$   0.13   RES 4.7K OHM 1% 1/10W 0603   R33   Yasso Phycorop   RC0005FR 0714KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 2.2T OHM 1% 1/10W 0603   R35   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R35   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R35   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R37   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R37   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R39   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   311+2/16FRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R39   Yasso Phycorop   RC0005FR 0712KT,   Dig-Key   A1296FRND   DIG-RES 1KT OHM 1% 1/10W 0603   R40   Visits Dist Dist Dist Dist Dist Dist Dist			Yanen Yanen						
RES 4.7K OHM 1% 1/10W 0603   R33   Yasso Phycorop   RC0005FR.074K7L, Dight 9, 3114.7WHRCTND   0.13   1   \$ 0.13   RES 2.1 OHM 1% 1/10W 0603   R34   Yasso Phycorop   RC0005FR.074K7L, Dight 9, 3114.7WHRCTND   0.13   1   \$ 0.13   RES 2.2 OHM 1% 1/10W 0603   R35   Yasso Phycorop   RC0005FR.072K1L   Dight 9, 3114.2 HRCTND   0.13   1   \$ 0.13   RES 2.2 OHM 1% 1/10W 0603   R36   Yasso Phycorop   RC0005FR.072K1L   Dight 9, 3114.2 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R37   Yasso Phycorop   RC0005FR.071CK, Dight 9, 3114.2 HRCTND   0.13   1   \$ 0.13   RES 3.0 OHM 1% 1/10W 0603   R37   Yasso Phycorop   RC0005FR.071CK, Dight 9, 3114.2 HRCTND   0.13   1   \$ 0.13   RES 3.0 OHM 1% 1/10W 0603   R38   TE Connectivity   CRCC00003F30R   Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R38   TE Connectivity   CRCC00003F30R   Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R38   Yasso Phycorop   RC0003FR.071CK, Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R40   Vishar Dale   CRCW0003000020EAPP   Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.23   RES 10K OHM 1% 1/10W 0603   R41   Yasso Phycorop   RC0003FR.071CK, Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.23   RES 10K OHM 1% 1/10W 0603   R42   Yasso   RC0003FR.071CK, Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R42   Yasso   RC0003FR.071CK, Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R44   Yasso Phycorop   RC0003FR.071CK, Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R44   Yasso Phycorop   RC0003FR.071CK, Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R46   Panasonic   ERAJAEBSOV   Dight 9, 3114.0 HRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R46   Panasonic   ERAJAEBSOV   Dight 9, PECOBCEND   0.47   1   \$ 0.47   TESPH 0.0000   R47   Panasonic   ERAJAEBSOV   Dight 9, PECOBCEND   0.47   1   \$ 0.47   TESPH 0.0000   R47   Tenholoby   Tenholoby   Tenholoby   Tenholoby   Tenholoby			Yageo Phycomo	RC0603FR-0710KL					
RES 4.7K OHM 1% 1/10W 0603   R34   Yasso Phycorop   RC0605FR-074KT_L   Dig-Key   311-2.7 HeGT-ND   0.13   1   \$   0.13   R55 (2.1 OHM 1% 1/10W 0603   R36   Yasso Phycorop   RC0605FR-072R1L   Dig-Key   311-2.2 HeGT-ND   0.13   1   \$   0.13   R55 (2.1 OHM 1% 1/10W 0603   R36   Yasso Phycorop   RC0605FR-072R1L   Dig-Key   311-2.2 HeGT-ND   0.13   1   \$   0.13   R55 (0.13   R55 (0.14   Yasso Phycorop   RC0605FR-0710K, Dig-Key   311-2.2 HeGT-ND   0.13   1   \$   0.13   R55 (0.14   Yasso Phycorop   RC0605FR-0710K, Dig-Key   Xasso Phycorop	RES 4.7K OHM 1% 1/10W 0603		Yageo Phycomp	RC0603FR-074K7L		311-4.70KHRCT-ND			
RES 221 CM-M 1% 1/10W 0603   R36   Yaseo Phycomp   RC0605FR-071CM, Dig-Key   311-10KGRCT-ND   0.13   1   \$ 0.13   RES 10K CM-M 1% 1/10W 0603   R37   Yaseo Phycomp   RC0605FR-071CM, Dig-Key   311-10KGRCT-ND   0.13   1   \$ 0.13   RES 20K CM-M 1% 1/10W 0603   R37   Yaseo Phycomp   RC0605FR-071CM, Dig-Key   311-10KGRCT-ND   0.13   1   \$ 0.13   RES 30K CM-M 1% 1/10W 0603   R38   TECOnnectivity   RC0605FR-071CM, Dig-Key   A12862TR-ND   RC0605FR-071CM, Dig-Key   RC0605	RES 4.7K OHM 1% 1/10W 0603		Yageo Phycomp	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND			
RES 10K OHM 1% 1/10W 0603   R66   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   311-10 (MFBCT-ND)   0.13   1   \$   0.13     RES 10K OHM 1% 1/10W 0603   R88   TE Connectivity   CRCC/00003F30R   Dig-Key   A12682TR-ND   0.13   1   \$   0.13     RES 10K OHM 1% 1/10W 0603   R89   Yanne   RC0003FR-0710K,   Dig-Key   A12682TR-ND   0.13   1   \$   0.13     RES 10K OHM 1% 1/10W 0603   R40   Vishav Dask   CRCC/00003000002EAHP   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13     RES 10K OHM 1% 1/10W 0603   R41   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R41   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R42   Yanne   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R42   Yanne   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R43   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R44   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R44   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 10K OHM 1% 1/10W 0603   R46   Yanne Phecorm   RC0003FR-0710K,   Dig-Key   A11-10 (KGRCT-ND   0.13   1   \$   0.13   RES 0.13   RES 02 (DHM 1% 1/10W 0603   R46   Panasonic   RA4BEBGOV   Dig-Key   B11-10 (KGRCT-ND   0.13   1   \$   0.47   Res 62 OHM 1% 1/10W 0603   R47   Panasonic   RA4BEBGOV   Dig-Key   PC0BECT-ND   0.47   1   \$   0.47   Res 62 OHM 1% 1/10W 0603   R47   Panasonic   RA4BEBGOV   Dig-Key   PC0BECT-ND   0.47   1   \$   0.47   Tokabo			<u>Yageo</u>	RC0603FR-0722R1L		311-22.1HRCT-ND			
RES 10K OHM 1% 1/10W 0603   R38   TE Compelvity   CRCC00006378-07   Dig-Key   A12862ETRND   D.13   1   \$ 0.13   RES 1K OHM 5% 1/10W 0603   R39   Yanoq   R.05603,R.071KL   Dig-Key   A12862ETRND   D.13   1   \$ 0.13   RES 1K OHM 5% 1/10W 0603   R40   Vishar Dah   CRCV000030000000000000000000000000000000									
RES 330 OHM 1% 1/10W 0603   R38   TE Connectivity   CRCCO00097530R   Digh-Key   A129682TR-ND   RES 140 M3% 1/10W 0603   R39   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 10.0 OHM 1/4W 0603   R41   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.23   1   \$ 0.23   RES 10.0 OHM 1/4W 0603   R41   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 1K OHM 5% 1/10W 0603   R42   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 1K OHM 5% 1/10W 0603   R43   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 1K OHM 5% 1/10W 0603   R44   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 1K OHM 5% 1/10W 0603   R44   Yappo   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RES 0.00   RC00031R 071KL   Digh-Key   S11-10K(SRCT-ND   0.13   1   \$ 0.13   RC00031R   RC00031R   RC00031R   RC00031R   RC00031								1	
RES IK CHM 95, 170W 0603   R99   Yappe   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES 10K OHM 15, 1710W 0603   R40   Yishan Dala   CR000000000000000004HP   Dig-Key   551.0 80ECTND   0.22   1   \$ 0.23     RES 10K OHM 15, 1710W 0603   R41   Yappe Phycomp   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R42   Yappe   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R43   Yappe Phycomp   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R44   Yappe   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R44   Yappe   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R44   Yappe   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R46   Yappe Phycomp   RC00003R,071KL   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R46   Parasonic   ERVASAEBEZOV   Dig-Key   311-10KGRCTND   0.13   1   \$ 0.13     RES IK OHM 95, 1710W 0603   R46   Parasonic   ERVASAEBEZOV   Dig-Key   PEZDECTND   0.47   1   \$ 0.47     IC ISOSPI COMM INTERFACE LTC6820IUD   U1   Analog Devices / Linear   Tarchrology   LTC6820IUD#PBF   Dig-Key   LTC6820IUD#PBF   Dig-Key   LTC6820IUD#PBF   Dig-Key   RC00000000000000000000000000000000000		R38	TE Connectivity	CRGCQ0603F330R	Digi-Key Digi-Kev	A129682TR-ND	U.13	1	3
RES 0.0 O-MM 14W 0603   R40		R39	Yageo	RC0603JR-071KL	Digi-Key	311-1.0KGRCT-ND	0.13	1	\$
RES 10K OHM 1% 1/10W 0603   R41   Yasso Phycorop   RC0605R-0710KL   DigHKey   311-10.0KRCTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R42   Yasso Phycorop   RC0605R-0710KL   DigHKey   311-10.0KRGTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R44   Yasso Phycorop   RC0605R-0710KL   DigHKey   311-10.0KRGTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R44   Yasso Phycorop   RC0605R-0710KL   DigHKey   311-10.0KRGTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R45   Yasso Phycorop   RC0605R-0710KL   DigHKey   311-10.0KRGTND   0.13   1   \$ 0.13   RES 10K OHM 1% 1/10W 0603   R45   Yasso Phycorop   RC0605R-0710KL   DigHKey   311-10.0KRGTND   0.13   1   \$ 0.13   RES 0.13   RES 20 PhW 0.1% 1/10W 0603   R46   Parasonic   ERVAREBEDD   DigHKey   PEDDRITIND   0.47   1   \$ 0.47   RES 62 OHM 0.1% 1/10W 0603   R47   Parasonic   ERVAREBEDD   DigHKey   PEDDRITIND   0.47   1   \$ 0.47   CISOSPI COMM INTERFACE LTC6820IUD   U1   Arabo Devices / Linear   Technology   Techn						541-0.0SBCT-ND		1	
RES 10K OPM 1% 1/10W 0603   R43   Yasoo Phycorp   RC0693FR.0710KL   DigHKey   311-10 0KHRCT.ND   0.13   1   \$ 0.13   RES 10K OPM 1% 1/10W 0603   R44   Yasoo   RC0693JR.9710KL   DigHKey   311-10 0KHRCT.ND   0.13   1   \$ 0.13   RES 10K OPM 1% 1/10W 0603   R45   Yasoo Phycorp   RC0693FR.0710KL   DigHKey   311-10 0KHRCT.ND   0.13   1   \$ 0.13   RES 10K OPM 1% 1/10W 0603   R45   Yasoo Phycorp   RC0693FR.0710KL   DigHKey   311-10 0KHRCT.ND   0.13   1   \$ 0.13   RES 10K OPM 1/10W 0603   R46   Parascritic   EPA3AEBECQV   DigHKey   PS2BECT.ND   0.47   1   \$ 0.47   RES 62 OPM 0.1% 1/10W 0603   R47   Parascritic   EPA3AEBECQV   DigHKey   PS2BECT.ND   0.47   1   \$ 0.47   RES 62 OPM 0.1% 1/10W 0603   R47   Parascritic   EPA3AEBECQV   DigHKey   PS2BECT.ND   0.47   1   \$ 0.47   RES 62 OPM 0.1% 1/10W 0603   R47   Parascritic   EPA3AEBECQV   DigHKey   PS2BECT.ND   0.47   1   \$ 0.47   RES 62 OPM 0.1% 1/10W 0603   R47   Parascritic   EPA3AEBECQV   DigHKey   PS2BECT.ND   0.47   1   \$ 0.47   RES 62 OPM 0.1% 1/10W 0603   R47   R4000 Devices 1/10es   Linear   Tocksoil/Devices 1/10es   Toc									
RES IK OHM 5% 1/10W 0603   R44   Yappa   RC0603/R-071KL   Digh-Key   311-1.0KGRCT-ND   0.13   1   \$ 0.13   RES IK OHM 5% 1/10W 0603   R45   Yappa Physomro   RC0603/R-071KL   Digh-Key   311-1.0KGRCT-ND   0.13   1   \$ 0.13   RES EQ OHM 0.1% 1/10W 0603   R46   Panasonic   ERAJAEB820V   Digh-Key   Digh-Key   Digh-Key   RES EQ OHM 0.1% 1/10W 0603   R47   Panasonic   ERAJAEB820V   Digh-Key   P620BCT-ND   0.47   1   \$ 0.47   1   \$ 0.47									
RES 10K CPM 1% 1/10W 0603									
RES 62 OHN 0.1% 1/10W 0603   R46   Panasonic   ERAJAERGOV   DigHkey   P620BCT-ND 0.47   1   \$ 0.47   R5 92 OHN 0.1% 1/10W 0603   R47   Panasonic   ERAJAERGOV   DigHkey   P620BCT-ND 0.47   1   \$ 0.47									
RES 62 OHM 0.1% 1/10W 0603   R47									
C   IC   IC   IC   IC   IC   IC   IC									
C   SCSP  COMM   NTERFACE LTG820IUD	RES 62 OHM 0.1% 1/10W 0603			LTCcccoll ID#DD5		LTCGGGGUID#DDE NO			
C PUSE XFMR 1CT:1CT 350UH SMD   XFMR1   Bourns   PT61018AAPEL-S   Dig-Key   Dig-Key   TPS2+008BQPWRQ1   St. 1   \$ 5.10		12		L I COBZUIUD#PBF	Digi-Key	L1C68ZUIUD#PBF-ND	1.4	1	*
16th/1000/Y   1FS2H000BQPWPRQ1   Digi-Key   TFS2H000BQPWPRQ1   ND     TFS2H000BQPWPRQ1   ND   TFS2H0		U1							
IC PULSE XFMR 1CT:1CT 350LH SMD	IC ISOSPI COMM INTERFACE LTC6820IUD		Analog Devices / Linear			LTC6820IUD#PBF-ND	7.4	1	s
IC PULSE XFMR 1CT:1CT 350UH SMID         XFMR1         Bourns         PT61018AAPEL-S         Digi-Key         PT61018AAPEL-SCT-ND         5.1         1         \$         5.10	IC ISOSPI COMM INTERFACE LTC6820IUD  IC ISOSPI COMM INTERFACE LTC6820IUD	U2	Analog Devices / Linear Technology	LTC6820IUD#PBF	Digi-Key		7.4	1	\$
TO POLSE AFRIK TO IT TO 1 300M SMID AFRIKT BOURS PTO 1018AAPEL-S DIG-Ney ND 5.1 1 5 5.10	IC ISOSPI COMM INTERFACE LTC6820IUD  IC ISOSPI COMM INTERFACE LTC6820IUD	U2	Analog Devices / Linear Technology	LTC6820IUD#PBF	Digi-Key	TPS2H000BQPWPRQ1-	7.4	1	\$
	IC ISOSPI COMM INTERFACE LTC6820IUD IC ISOSPI COMM INTERFACE LTC6820IUD IC HSD Dual-Channel 40V 1KOhm	U2 U3	Analog Devices / Linear Technology Texas Instruments	LTC6820IUD#PBF  TPS2H000BQPWPRQ1	Digi-Key Digi-Key	TPS2H000BQPWPRQ1- ND			
	IC ISOSPI COMM INTERFACE LTC6820IUD IC ISOSPI COMM INTERFACE LTC6820IUD IC HSD Dual-Channel 40V 1KOhm	U2 U3	Analog Devices / Linear Technology Texas Instruments	LTC6820IUD#PBF  TPS2H000BQPWPRQ1	Digi-Key Digi-Key	TPS2H000BQPWPRQ1- ND PT61018AAPEL-SCT-			







## **Electrical Rules Check Report**

Class	Document	Message
Warning	BMS Carrier - AFE Interface.SchDoc	Incorrect link between project variant "BMS Carrier - Slave Battery Box" and schematic
		component Component R6 62R
Warning	Controller_Board_Interface.SchDoc	Net 3V3 has no driving source (Pin C1-1,Pin C3-1,Pin C15-1,Pin C16-1,Pin P1-40,Pin
		P1-41,Pin P1-42,Pin P1-43,Pin P1-44,Pin P1-45,Pin P2-3,Pin P5-3,Pin R1-1,Pin R5-1,Pin
		R9-1,Pin R11-1,Pin R12-1,Pin R18-2,Pin U1-5,Pin U1-6,Pin U1-7,Pin U1-8,Pin U1-11,Pin
Error	BMS Carrier - Connectors.SchDoc	U1 16 Pin U2 5 Pin U2 8 Pin U2 11 Pin U2 16)  Net 12V_CONTACTOR_COIL_SW contains multiple Input Ports (Porl
		12V_CONTACTOR_COIL_SW,Port 12V_CONTACTOR_COIL_SW)
Error	BMS Carrier - Battery Relay	Net 12V_CONTACTOR_COIL_SW contains multiple Input Ports (Port
	Controls.SchDoc	12V_CONTACTOR_COIL_SW,Port 12V_CONTACTOR_COIL_SW,Port
		HV GND RELAY 12V SW,Port HV PWR RELAY 12V SW)
Error	BMS Carrier - Battery Relay	Net 12V_CONTACTOR_COIL_SW contains multiple Input Ports (Port
	Controls.SchDoc	HV_GND_RELAY_12V_SW,Port HV_PWR_RELAY_12V_SW)
Error	BMS Carrier - Battery Relay	Net NetD1_1 contains multiple Input Ports (Port HV_PWR_RELAY_GND,Port
	Controls.SchDoc	HV PWR RELAY GND)
Error	BMS Carrier - Battery Relay	Net NetD3_1 contains multiple Input Ports (Port HV_GND_RELAY_GND,Porl
	Controls.SchDoc	HV GND RELAY GND)
Error	BMS Carrier - Fan Controls.SchDoc	Net NetLED5_2 contains multiple Input Ports (Port FAN_1_GND,Port FAN_1_GND)
Error	BMS Carrier - Fan Controls.SchDoc	Net NetLED6_2 contains multiple Input Ports (Port FAN_2_GND,Port FAN_2_GND)
Error	BMS Carrier - Fan Controls.SchDoc	Net PA9_FAN_2_PWM contains multiple Input Ports (Port PA9_FAN_2_PWM,Port
		PA9_FAN_2_PWM)
Error	BMS Carrier - Fan Controls.SchDoc	Net PA10_FAN_1_PWM contains multiple Input Ports (Port PA10_FAN_1_PWM,Port
		PA10_FAN_1_PWM)
Warning	Controller_Board_Interface.SchDoc	Net PB0_MOSFET_SOFT_START_INPUT has no driving source (Pin P1-17)
Error	BMS Carrier - AFE Interface.SchDoc	Net PB0_MOSFET_SOFT_START_INPUT has only one pin (Pin P1-17)

## **Design Rules Verification Report**

Filename : C:\Users\Aashmika Mali\Documents\First Year\Midnight Sun\hardware\MSXII\_BN

Warnings 0 Rule Violations 99

## Warnings Total 0

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=0.203mm) (Max=2.54mm) (Preferred=0.203mm) (All)	0
Power Plane Connect Rule(Direct Connect) (Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.025mm) (Max=5.08mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)	99
Silk To Solder Mask (Clearance=0.254mm) (Disabled)(IsPad),(All)	0
Silk to Silk (Clearance=0.254mm) (Disabled)(All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	99

Minimum Calaba Marak Clima (Cara A 25 Anna) (All) (All)
Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)
Minimum Solder Mask Sliver Constraint: (0.244mm < 0.254mm) Between Pad C13-1(9.324mm,7.675mm) on Top Layer And Pad Pad Pad Pad Pad Pad Pad Pad Pad Pa
Minimum Coldes Mask Silver Constraint: (0.105mm < 0.254mm) Between Pad P1-(4mm,22.05mm) on Multi-Layer And Pad P1-(5.5mm,22.8mm) on Top
Minimum Solder Mask Sliver Constraint: (0.105mm < 0.254mm) Between Pad P1-(4mm,7.95mm) on Multi-Layer And Pad P1-(5.5mm,7.2mm) on Top
Miyemum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q1-1(48.025mm,57.8mm) on Top Layer And Pad
Min2642h085tder.Nraskromer Constraint: (0.047mm < 0.254mm) Between Pad Q1-2(48.025mm,57.15mm) on Top Layer And Pad
Minif(48h085tder,Maskroni)ver Constraint: (0.047mm < 0.254mm) Between Pad Q1-3(48.025mm,56.5mm) on Top Layer And Pad
Mini7(48h9Soide FM45kn9h)ver Constraint: (0.202mm < 0.254mm) Between Pad Q1-3(48.025mm,56.5mm) on Top Layer And Pad
Q1h8(48h9Soride,6Ma\$kn8hi)ver Constraint: (0.047mm < 0.254mm) Between Pad Q1-4(49.875mm,56.5mm) on Top Layer And Pad
Minb(4th8\$50tter.Wa\$kr9twer Constraint: (0.047mm < 0.254mm) Between Pad Q1-4(49.875mm,56.5mm) on Top Layer And Pad
Minif(4th9 Stoilde FM45km3hi)ver Constraint: (0.202mm < 0.254mm) Between Pad Q1-4(49.875mm, 56.5mm) on Top Layer And Pad
MinBr(4Br)Soride, 5Ma\$km8hi), er Constraint: (0.047mm < 0.254mm) Between Pad Q1-5(49.875mm, 57.15mm) on Top Layer And Pad
Minio(Ath8S5ider,Ma8inShi)ver Constraint: (0.187mm < 0.254mm) Between Pad Q1-7(48.95mm,57.45mm) on Top Layer And Pad
Min Min Mark Soute FM 43 km Sniver Constraint: (0.047mm < 0.254mm) Between Pad Q2-1(59.075mm, 57.884mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q2-2(59.075mm,57.234mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q2-3(59.075mm,56.584mm) on Top Layer And Pad
Marif (60m Stotile 6 Mark 13) liver Constraint: (0.202mm < 0.254mm) Between Pad Q2-3(59.075mm, 56.584mm) on Top Layer And Pad
Mank dom so by American (0.047mm < 0.254mm) Between Pad Q2-4(60.925mm, 56.584mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q2-4(60.925mm,56.584mm) on Top Layer And Pad
Marif (60m Stolie Mank Stolie Constraint: (0.202mm < 0.254mm) Between Pad Q2-4(60.925mm, 56.584mm) on Top Layer And Pad
Man Brown South And Pac (0.047mm < 0.254mm) Between Pad Q2-5(60.925mm,57.234mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.187mm < 0.254mm) Between Pad Q2-7(60mm,57.534mm) on Top Layer And Pad Q2-8(60mm,56.494mm) of the Constraint of the
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q3-1(10.4mm,30.525mm) on Top Layer And Pad
Qihakitih05orideβMa&binihor Constraint: (0.047mm < 0.254mm) Between Pad Q3-2(11.05mm,30.525mm) on Top Layer And Pad
Qanifi(tim76ortd80时a5km6ki)ver Constraint: (0.047mm < 0.254mm) Between Pad Q3-3(11.7mm,30.525mm) on Top Layer And Pad
Qianiiitilun7 Soritte ያጠቂ 5 m Snilver Constraint: (0.202mm < 0.254mm) Between Pad Q3-3(11.7mm,30.525mm) on Top Layer And Pad
Mini Mini Soute And Sanguilyer Constraint: (0.047mm < 0.254mm) Between Pad Q3-4(11.7mm,32.375mm) on Top Layer And Pad
Qanbi(tihoSoride)的
Manifitun Soute and Mask souther Constraint: (0.202mm < 0.254mm) Between Pad Q3-4(11.7mm,32.375mm) on Top Layer And Pad
Mana Mana Mana Mana Mana Mana Mana Mana
MahintiUn4Sortua2Maskmoni)ver Constraint: (0.187mm < 0.254mm) Between Pad Q3-7(10.75mm,31.45mm) on Top Layer And Pad
<mark>Min Br(Lim7 Sorte BM 45 km Shi)</mark> ver Constraint: (0.047mm < 0.254mm) Between Pad Q4-1(26.975mm,30.695mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q4-2(27.625mm,30.695mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q4-3(28.275mm,30.695mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.202mm < 0.254mm) Between Pad Q4-3(28.275mm,30.695mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q4-4(28.275mm,32.545mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q4-4(28.275mm,32.545mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.202mm < 0.254mm) Between Pad Q4-4(28.275mm,32.545mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad Q4-5(27.625mm,32.545mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.187mm < 0.254mm) Between Pad Q4-7(27.325mm,31.62mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.198mm < 0.254mm) Between Pad Q5-1(41.115mm,66.966mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.198mm < 0.254mm) Between Pad Q5-2(41.115mm,67.916mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.198mm < 0.254mm) Between Pad Q5-4(38.385mm,68.866mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.198mm < 0.254mm) Between Pad Q5-5(38.385mm,67.916mm) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-1(30.325mm,11mm) on Top Layer And Pad U1-17(31.75mm,10.25mm
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-1(30.325mm,11mm) on Top Layer And Pad U1-2(30.325mm,10.5mm)
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-10(33.175mm,10mm) on Top Layer And Pad
Minimital StatemMaskrisinver Constraint: (0.022mm < 0.254mm) Between Pad U1-10(33.175mm,10mm) on Top Layer And Pad
M1n1r1(2ri): 85/101er; Ma28/1/81/1/9er Constraint: (0.047mm < 0.254mm) Between Pad U1-10(33.175mm,10mm) on Top Layer And Pad U1-9(33.175mm,9.5mm)
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-11(33.175mm,10.5mm) on Top Layer And Pad
Minita(iaa: Statemylaskus)iver Constraint: (0.022mm < 0.254mm) Between Pad U1-11(33.175mm,10.5mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-12(33.175mm,11mm) on Top Layer And Pad
Minim (27i). Solder, Mask is tiver Constraint: (0.047mm < 0.254mm) Between Pad U1-13(32.5mm,11.675mm) on Top Layer And Pad
<del>U1-14(32mm,11.675mm)</del>

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Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-13(32.5mm,11.675mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-14(32mm,11.675mm) on Top Layer And Pad
Minita(21). Solute 1 Waskinstower Constraint: (0.022mm < 0.254mm) Between Pad U1-14(32mm,11.675mm) on Top Layer And Pad
Minity (2th. Statuter, Maskinshiver Constraint: (0.047mm < 0.254mm) Between Pad U1-15(31.5mm, 11.675mm) on Top Layer And Pad
Minife ใส่บริเพาร์โทย Constraint: (0.022mm < 0.254mm) Between Pad U1-15(31.5mm,11.675mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-16(31mm,11.675mm) on Top Layer And Pad
Minity (2th. 35thder, Maskinstower Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm, 10.25mm) on Top Layer And Pad
Minal(1000) Stortder, Maskn81)ver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm,10.25mm) on Top Layer And Pad U1-3(30.325mm,10mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm,10.25mm) on Top Layer And Pad U1-4(30.325mm,9.5mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm,10.25mm) on Top Layer And Pad U1-5(31mm,8.825mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm,10.25mm) on Top Layer And Pad U1-6(31.5mm,8.825mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31,75mm,10.25mm) on Top Laver And Pad U1-7(32mm,8.825mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm,10.25mm) on Top Layer And Pad U1-8(32.5mm,8.825mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U1-17(31.75mm,10.25mm) on Top Layer And Pad U1-9(33.175mm,9.5mm
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-2(30.325mm,10.5mm) on Top Layer And Pad U1-3(30.325mm,10mm)
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-3(30.325mm,10mm) on Top Layer And Pad U1-4(30.325mm,9.5mm) dr
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-5(31mm,8.825mm) on Top Layer And Pad U1-6(31.5mm,8.825mm) or
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-6(31.5mm,8.825mm) on Top Layer And Pad U1-7(32mm,8.825mm) or
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-7(32mm,8.825mm) on Top Layer And Pad U1-8(32.5mm,8.825mm) or
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-1(30.325mm,18.25mm) on Top Layer And Pad
Mần Tổm (ያስ. ፕሬክዴክ ያክንስ er Constraint: (0.047mm < 0.254mm) Between Pad U2-1(30.325mm,18.25mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-10(33.175mm.17.25mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-10(33.175mm,17.25mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-10(33.175mm,17.25mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-11(33.175mm,17.75mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-11(33.175mm,17.75mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-12(33.175mm,18.25mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-13(32.5mm,18.925mm) on Top Laver And Pad
M2n/M4/22rSovid/8-M25xN9/ver Constraint: (0.022mm < 0.254mm) Between Pad U2-13(32.5mm,18.925mm) on Top Layer And Pad
Mæin/(ፊክ. ሜሪክሊክ / Masmstilver Constraint: (0.047mm < 0.254mm) Between Pad U2-14(32mm,18.925mm) on Top Layer And Pad
M2n1f5(2nt Sworte 1 8/925tr 8/twer Constraint: (0.022mm < 0.254mm) Between Pad U2-14(32mm,18.925mm) on Top Layer And Pad U2-17(31.75mm,17.5mm
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-15(31.5mm.18.925mm) on Top Laver And Pad
Manha (ជារាទ្ធិសេស្ត្រាម្ចេក Constraint: (0.022mm < 0.254mm) Between Pad U2-15(31.5mm,18.925mm) on Top Layer And Pad
M2nitri(ብነስ: 35onder, M7a5th 8ti)ver Constraint: (0.022mm < 0.254mm) Between Pad U2-16(31mm,18.925mm) on Top Layer And Pad U2-17(31.75mm,17.5mm
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm, 17.5mm) on Top Layer And Pad
Mahara Strong Master Master Shower Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm,17.5mm) on Top Layer And Pad
Maaa (የፈርስ 3 Stotoler, Waster Stroker Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm, 17.5mm) on Top Layer And Pad
M2n4(30n3 25thter), Ma3&15thter) Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm,17.5mm) on Top Layer And Pad U2-5(31mm,16.075mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm,17.5mm) on Top Layer And Pad U2-6(31.5mm,16.075mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm, 17.5mm) on Top Layer And Pad U2-7(32mm, 16.075mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm,17.5mm) on Top Layer And Pad U2-8(32.5mm,16.075mm)
Minimum Solder Mask Sliver Constraint: (0.022mm < 0.254mm) Between Pad U2-17(31.75mm,17.5mm) on Top Layer And Pad
Man Statuter, Mastarshiver Constraint: (0.047mm < 0.254mm) Between Pad U2-2(30.325mm,17.75mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-3(30.325mm,17.25mm) on Top Layer And Pad
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-5(31mm,16.075mm) on Top Layer And Pad U2-6(31.5mm,16.075mm)
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-6(31.5mm,16.075mm) on Top Layer And Pad U2-7(32mm,16.075mm)
Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U2-7(32mm,16.075mm) on Top Layer And Pad U2-8(32.5mm,16.075mm)
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