

A

A

B

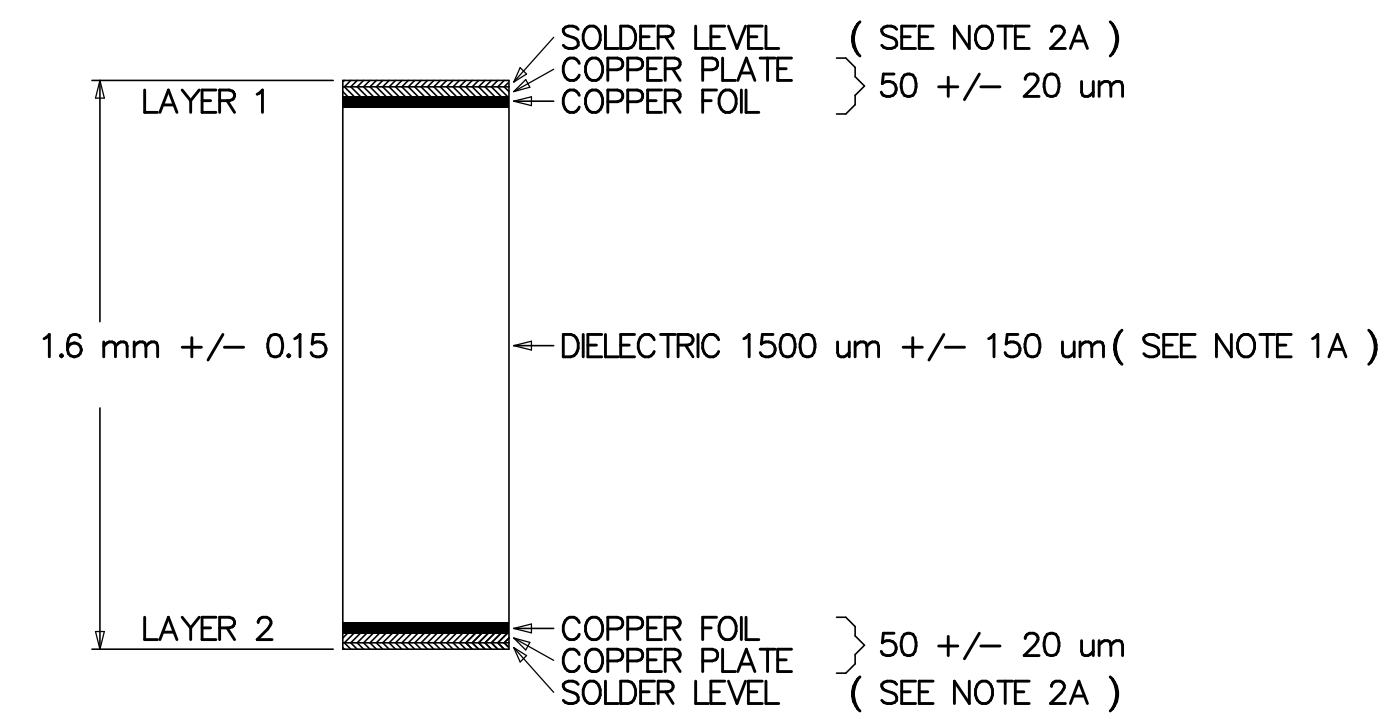
B

C

C

D

D

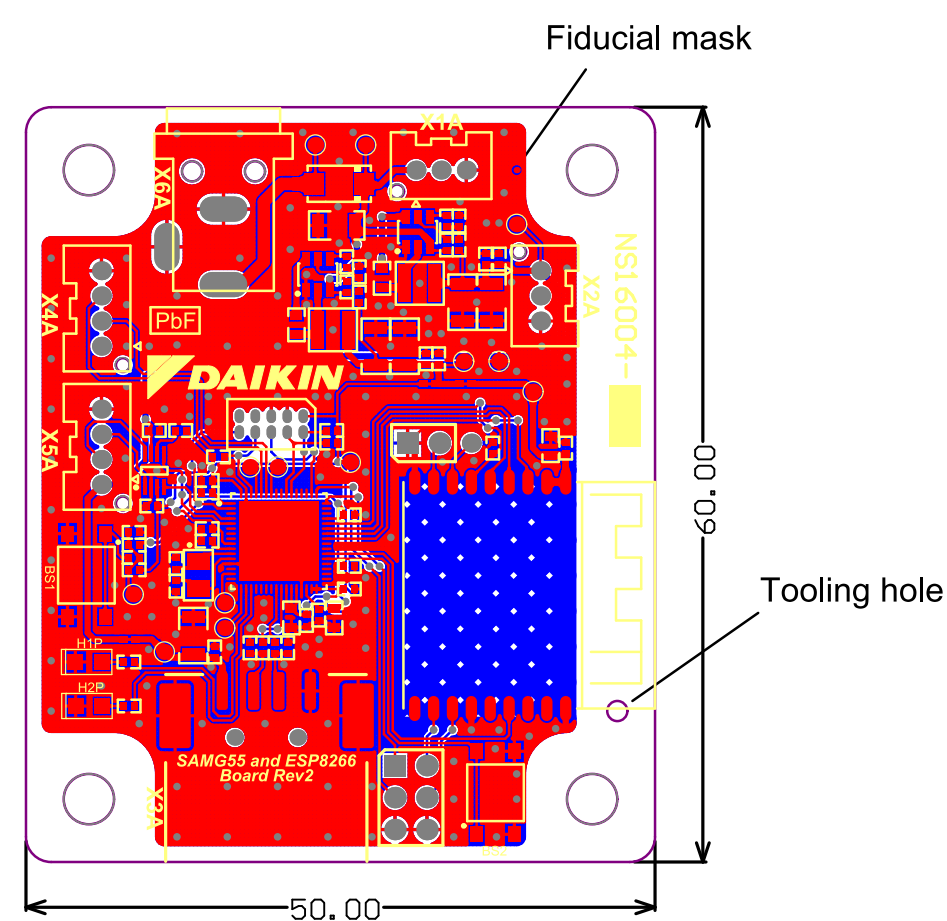


NOTE 1A: DIELECTRIC FR4
2A: SURFACE PROTECTION: HASL

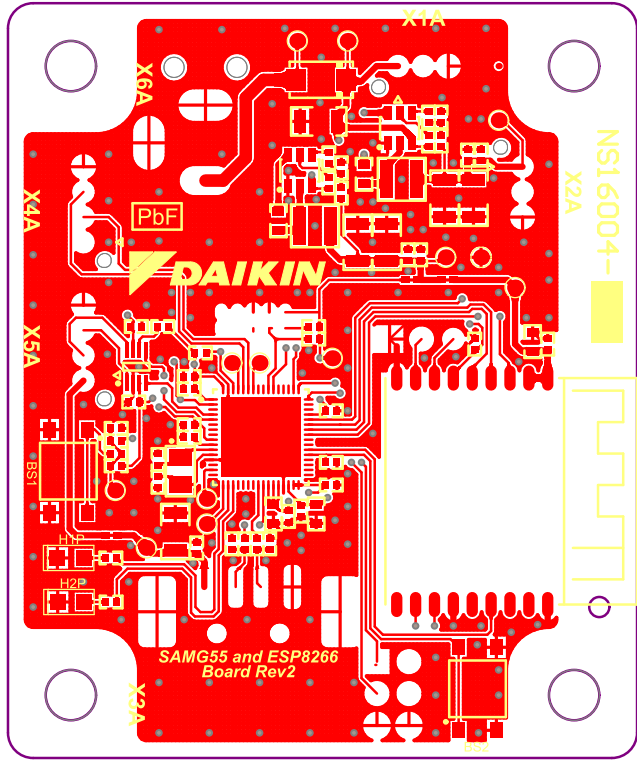
THE BOARD MUST BE RoHS COMPLIANT

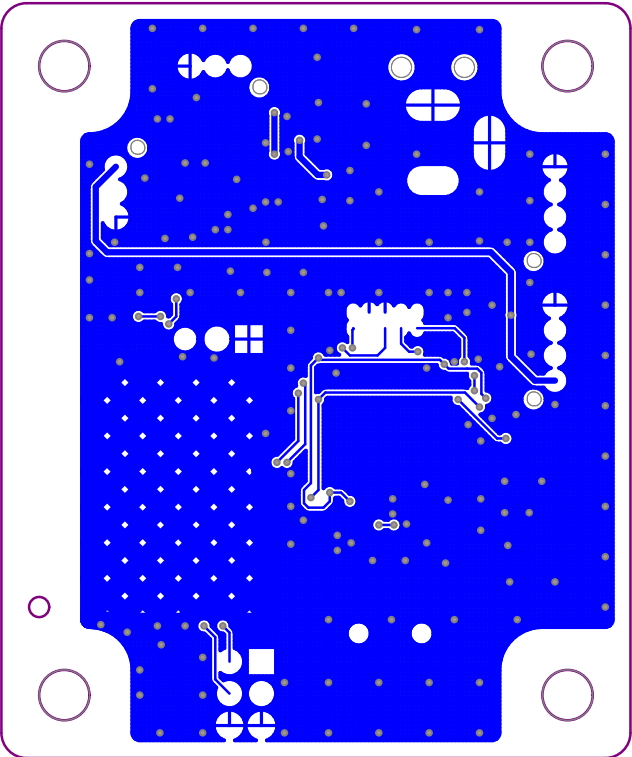
DETAIL A (CROSS-SECTION)

SCALE = NONE



ENGINEER:	TITLE:		
PCB DESIGNER:			
DATE: 2016/9/18	PART NO.:	REV:	
FILE NAME: G55_ESP8266_Rev2.PcbDoc	DWG NO:	SCALE:	

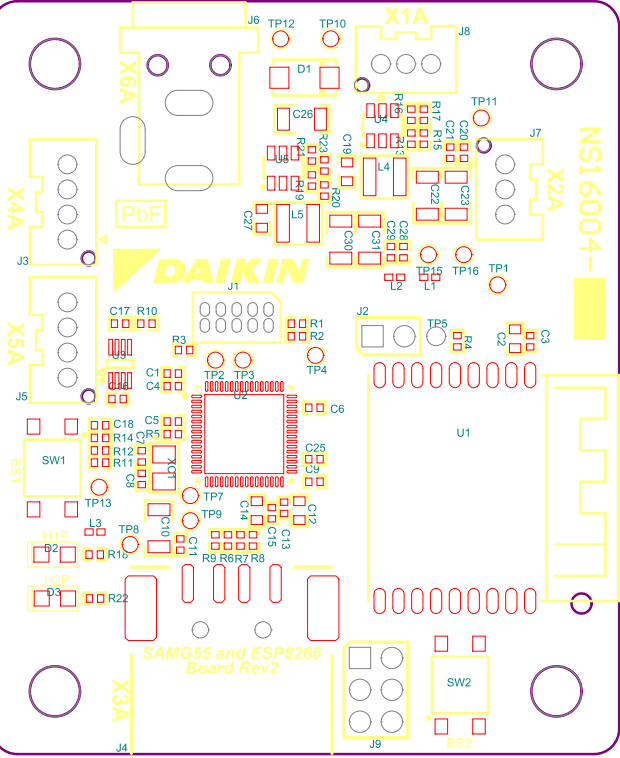


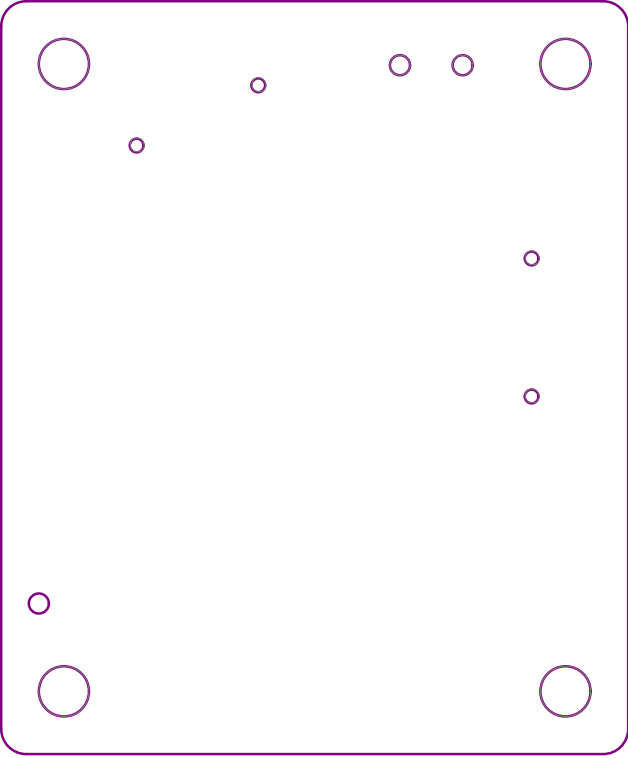


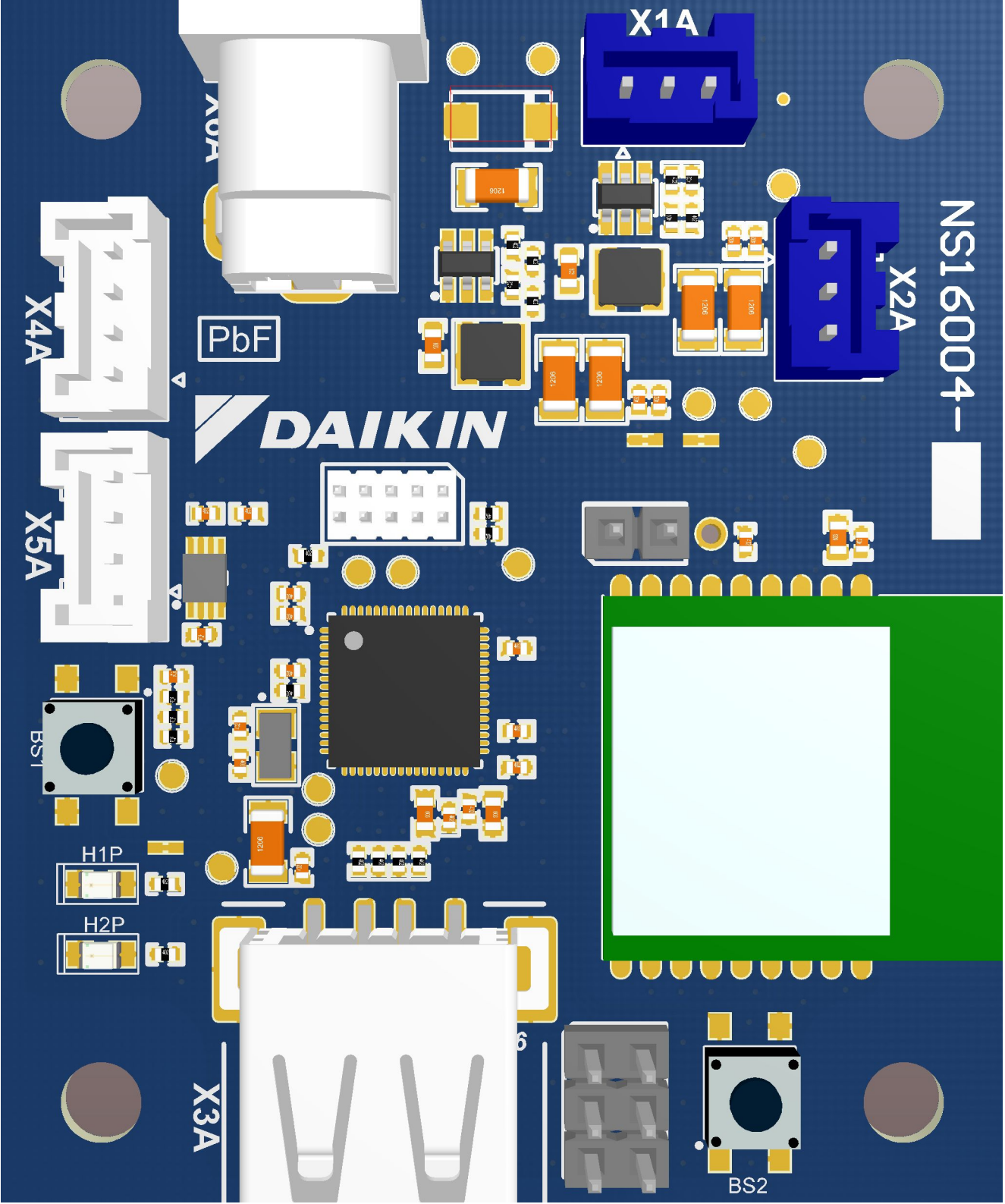
NS16004-

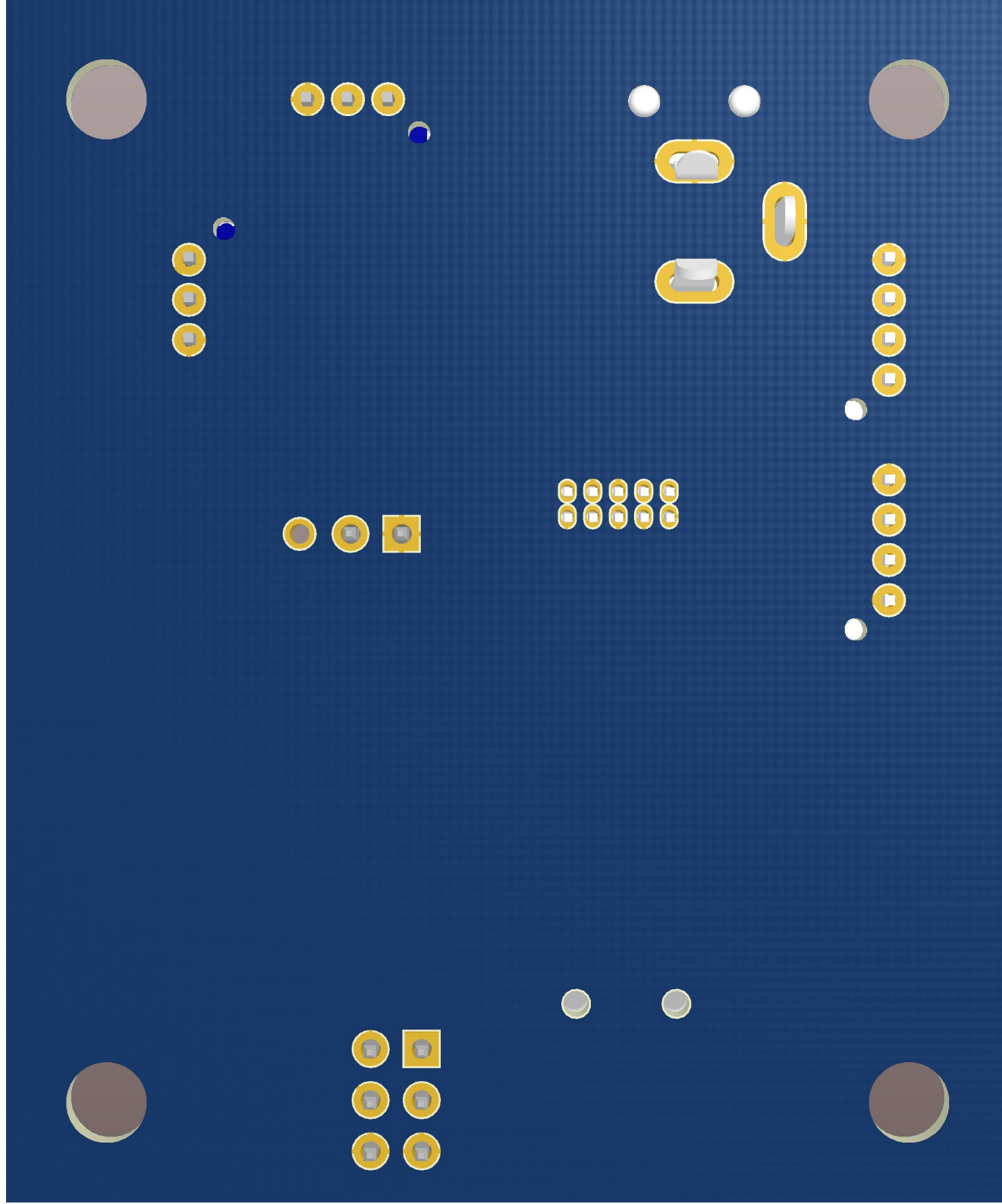


SAMG55 and ESP8266
Board Rev2









Component list

Bill of Materials as Print Version For Project [G55_ESP8266_Rev2.PrjPCB] (No PCB Document Selected)

Source Data From:

G55 ESP8266 Rev2.PrjPCB

Project:

G55 ESP8266 Rev2.PrjPCB

Variant:

None

Report Date: 2016/9/18 14:32:29

Print Date: 2016/9/18 14:23:43

#	Designator	Quantity	Value	Manufacturer	MPN	Description
1	C1, C3, C4, C5, C6, C9, C11, C13, C15, C16, C17, C18, C20, C28	14	100nF	Murata	GRM155R71H104KE14	Ceramic capacitor, SMD 0402, X7R, 50V, 10%
2	C2, C12, C14	3	4.7uF	Murata	GRM188R60J475KE19D	Ceramic capacitor, SMD 0603, X5R, 6.3V, 10%
3	C7, C8	2	16pF	Murata	GRM1555C1H160JA01	Ceramic capacitor, SMD 0402, C0G, 50V, 5%
4	C10, C22, C26, C30	4	10uF	Murata	GRM31CR71E106MA12L	Ceramic capacitor, SMD 1206, X5R, 25V, 10%
5	C19, C27	2	1uF	Murata	GRM188R71E105KA12	Ceramic capacitor, SMD 0603, X7R, 25V, 10%
6	D1	1	MRA4007T3G	ON Semiconductor	MRA4007T3G	DIODE GP FAST 1A 1000V SMA
7	D2	1	EL17-21SYGC	Everlight	EL17-21SYGC	LED, Green, Wave length=575nm, SMD 0805, ?0?
8	D3	1	EL17-21UYC/A3	Everlight	17-21UYC/S530-A3/TR8	LED, Yellow, Wave length=591nm, SMD 0805, ?0?
9	J1	1	PIN HEADER 2x5	Garry	176-2-010-0-T-XS0-0730	2x5 pin header, 1.27mm pitch, THM
10	J2	1	HMTSW-102-23-F-S-237	SAMTEC	HMTSW-102-23-F-S-237	1x2 pin header, 2.54mm pitch, Pin-in-Paste THM
11	J3	1	B04B-PASK-1	J.S.T. Mfg. Co. Ltd.	B04B-PASK-1	1x4 socket , 2mm pitch, THM
12	J4	1	USB-A-S-F-W-SM2-R-TR	SAMTEC	USB-A-S-F-W-SM2-R-TR	USB type A receptacle, SMT
13	J5	1	B04B-PAYK-1	J.S.T. Mfg. Co. Ltd.	B04B-PAYK-1	1x4 socket , 2mm pitch, THM
14	J6	1	PJ-025	CUI INC	PJ-025	3A DC power jack
15	J7	1	B03B-PAYK-1	J.S.T. Mfg. Co. Ltd.	B03B-PAYK-1	1x3 socket , 2mm pitch, THM
16	J8	1	B03B-PASK-1	J.S.T. Mfg. Co. Ltd.	B03B-PASK-1	1x3 socket , 2mm pitch, THM
17	J9	1	CD075014 2X3			2x3 pin header, 2.54 mm pitch, Pin-in-Paste THM
18	L4, L5	2	4.7uH	Sunlord	SWPA3015S4R7MT	4.7uH power inductor Isat=0.9A 3*3mm
19	R1, R2, R3, R11, R13, R19	6	100k	YAGEO CORP	RC0402FR-07100KL	Thick film resistror, SMD 0402, 1/16W, 1%
20	R4, R10	2	4.7k	YAGEO CORP	RC0402FR-073K6L	Thick film SMD 0402 1/16W 1%
21	R6, R7, R12, R14	4	33R	YAGEO CORP	RC0402FR-0733RL	Thick film resistror, SMD 0402, 1/16W, 1%
22	R8, R9, R23	3	15k	YAGEO CORP	RC0402FR-0715KL	Thick film resistror, SMD 0402, 1/16W, 1%
23	R15, R20	2	47k	YAGEO CORP	RC0402FR-0747KL	Thick film resistror, SMD 0402, 1/16W, 1%
24	R16, R21	2	75k	YAGEO CORP	RC0402FR-0775KL	Thick film resistor, SMD 0402, 1/16W, 1%
25	R17	1	9.1k	YAGEO CORP	RC0402FR-079K1L	Thick film resistror, SMD 0402, 1/16W, 1%
26	R18, R22	2	220R	YAGEO CORP	RC0402FR-07220RL	Thick film resistror, SMD 0402, 1/16W, 1%
27	SW1, SW2	2	4.5x4.5x4.5mm	(n/a)	4.5x4.5x4.5mm	Push Button, SMD, LxWxH=4.5x4.5x4.5mm
28	U1	1	ESP8266	ESPRESSIF SYSTEM	ESP8266	ESP-WROOM-02 WiFi Module
29	U2	1	SAMG55 QFN 64	ATMEL	ATSAMG55J19A-MUT	SAMG55 QFN 64
30	U3	1	TXS0102DCUR	Texas Instruments	TXS0102DCUR	2-BIT BIDIRECTIONAL VOLTAGE-LEVEL TRANSLATOR 8PSOP
31	U4, U5	2	MP1470GJ	MPS	MP1470GJ	High-Efficiency, 2A, 16V, 500kHz Synchronous, Step-Down Converter, TSOT23-6
32	XC1	1	32kHz	TXC Corporation	9H03200031	CRYSTAL, SMD3215, 32.768kHz, 12.5pF, +/-20ppm, ESR 70Kohm

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Approved

Notes