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D



125kHz Wakeup Transmitter Board

1

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125kHz Wakeup Transmitter Board



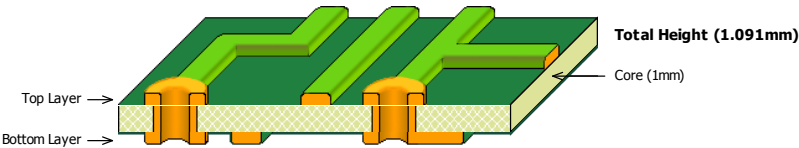
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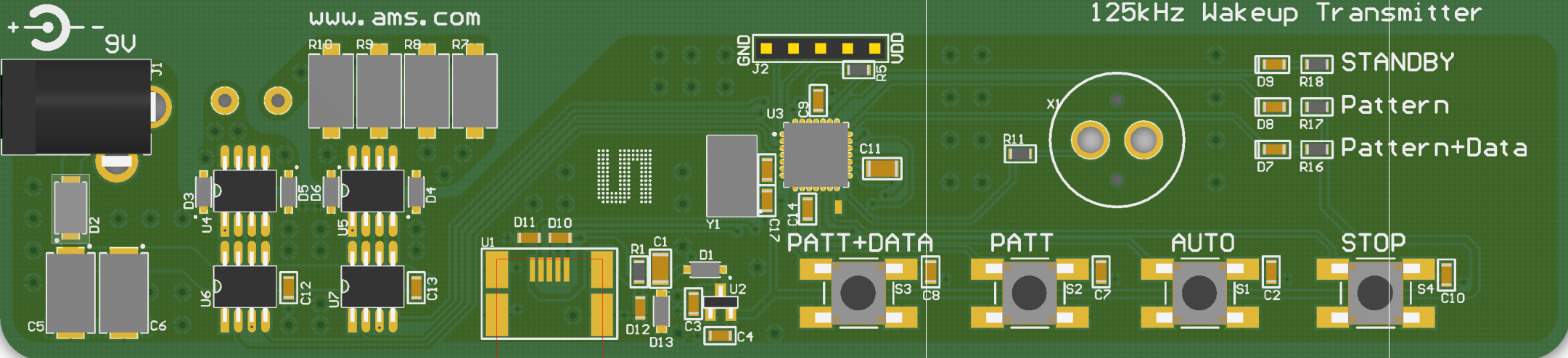
Revision History

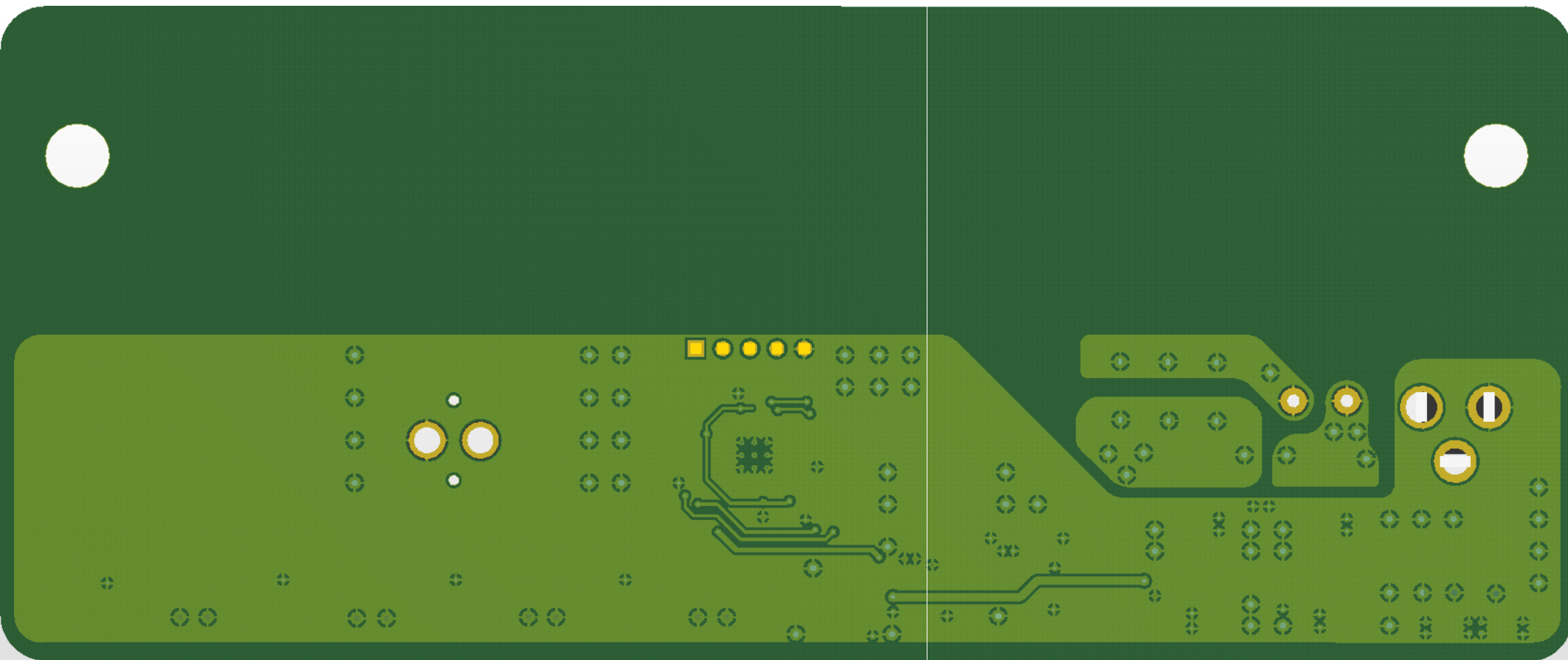
Revision 2.0: Update to new corporate format

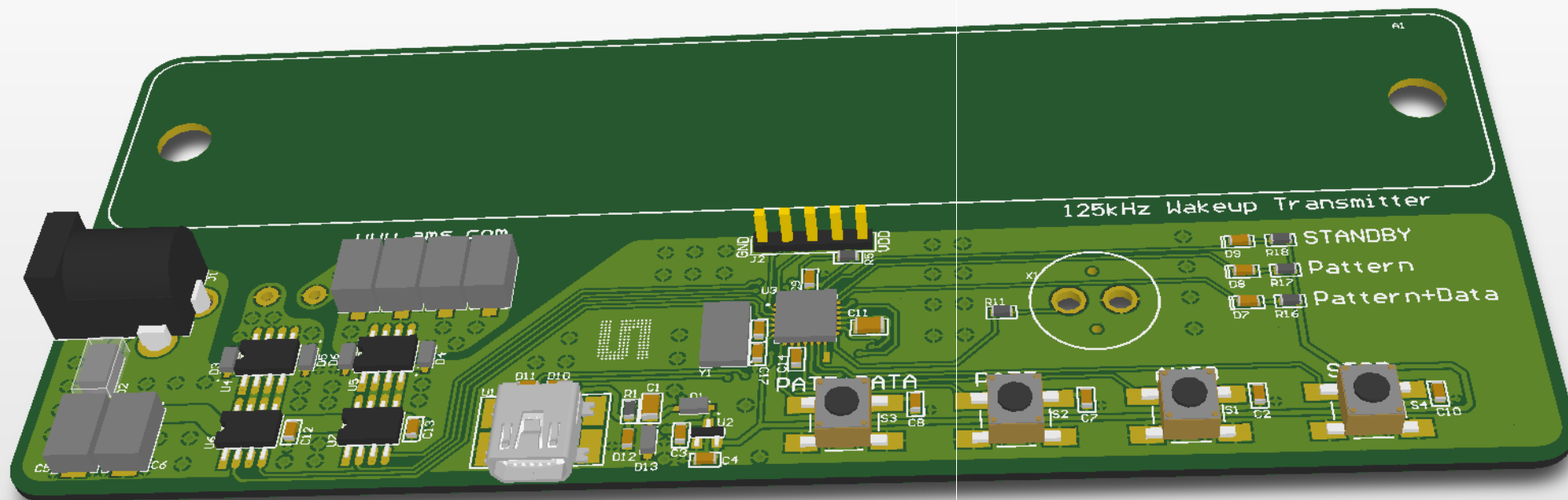
PCB Stackup

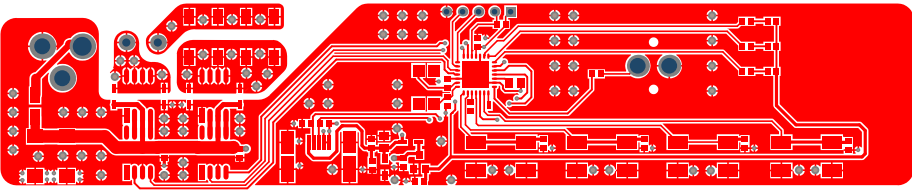


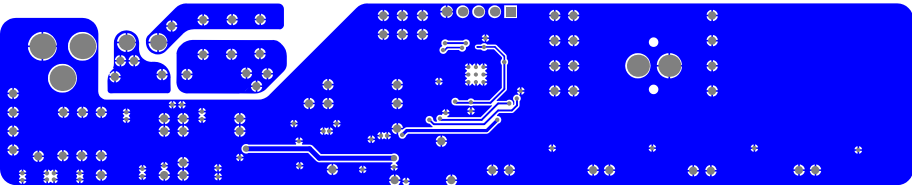
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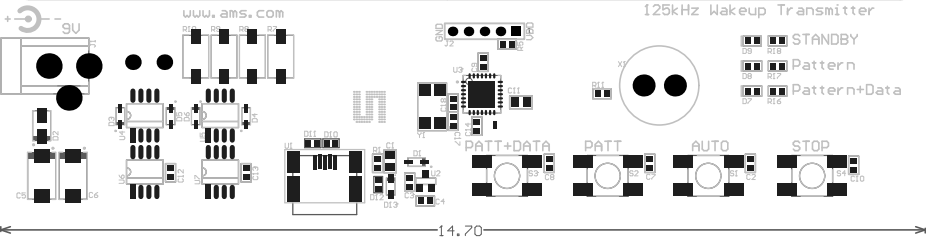












Bill of Materials			125kHz Wakeup Transmitter Board						
Company:			ams AG						
Originator:			JRY						
PCB Name:			125kHz Wakeup Transmitter Board						
PCB Version:			2.0						
Report Date:			07/02/2013						
#	Designator	Comment	Component_Description	Manufacturer	Manufacturer Part Number	Supplier 1	Supplier Part Number 1	Quantity	
1	C1, C11	10u	C0805/16V/X5R					2	
2	C17, C18	18p	C0603/50V/X5R					2	
3	C2, C7, C8, C10	10n	C0603/10V/X5R					4	
4	C3, C4	1u	MULTICOMP - MC0603X105M160CT - CAPACITOR CERAMIC, 1UF, 16V, X5R, 20%, 0603	MULTICOMP	MC0603X105M160CT	Farnell	1710292	2	
5	C5, C6	220u	KEMET - T491D227K0162T - CAPACITOR, D CASE, 220UF, 16V	KEMET	T491D227K0162T	Farnell	1793889	2	
6	C9, C12, C13, C14	100n	C0603/10V/X5R					4	
7	D1, D3, D4, D5, D6	PMEG4010	NXP - PMEG4010CEJ,115 - SCHOTTKY RECT 40V 1A SOD323F	NXP	PMEG4010CEJ,115	Farnell	1757777	5	
8	D10, D11, D12	24V	COOPER BUSSMANN - 0603ESDA-TR1 - DIODE TVS,BL24V,0603	COOPER BUSSMANN	0603ESDA-TR1	Farnell	1470613	3	
9	D13	6.8V	ON SEMICONDUCTOR - MM326V8T1G - DIODE ZENER 6.8V 0.2W	ON SEMICONDUCTOR	MM326V8T1G	Farnell	1431206	1	
10	D2	SK310A	TAIWAN SEMICONDUCTOR SK310A - DIODE SCHOTTKY, 3A, 100V, SMA	TAIWAN SEMICONDUCTOR	SK310A	Farnell	1299279	1	
11	D7	PATTD	MULTICOMP - OVS-0608 - LED 0603 SUPER BRIGHT RED	MULTICOMP	OVS-0608	Farnell	1716774	1	
12	D8	PATT	MULTICOMP - OVS-0608 - LED 0603 SUPER BRIGHT RED	MULTICOMP	OVS-0608	Farnell	1716774	1	
13	D9	STANDBY	MULTICOMP - OVS-0608 - LED 0603 SUPER BRIGHT RED	MULTICOMP	OVS-0608	Farnell	1716774	1	
14	J1	DC_Socket_THMD	LUMBERG - NEB 21 R - SOCKET, LOW VOLTAGE, 2.1MM, 4A	LUMBERG	NEB 21 R	Farnell	1217037	1	
15	J2	ICP	5 pole pin header/2.54mm					1	
16	R1	100k	R0603/5%/0.1W					1	
17	R11	1k5	R0603/5%/0.1W					1	
18	R16, R17, R18	680	VISHAY DRALORIC - CROW0603680RFKEAHP - RESISTOR, 0603, 1%, 680R	VISHAY DRALORIC	CROW0603680RFKEAHP	Farnell	1738903	3	
19	R5	10k	R0603/5%/0.1W					1	
20	R7, R8, R9, R10	18	TE CONNECTIVITY / CGS - SMW218RJT - RESISTOR, 2W 5% 18R	TE CONNECTIVITY / CGS	SMW218RJT	Farnell	1086291	4	
21	S1, S2, S3, S4	Mode	TE CONNECTIVITY / ALCOSSWITCH - FSM2J5MA SWITCH, SPST, 0.05A, 24VDC, SMD	TE CONNECTIVITY / ALCOSSWITCH	FSM2J5MA	Farnell	3801287	4	
22	U1	USB_SMD	CONN RECEPT USB 5POS RT AN3 SMD	Molex Connector Corporation	56579-0576	Digi-Key	WM17122DKR-ND	1	
23	X1	Piezo	MURATA - PKM13EPYH4002-B0 - PIEZO SOUNDER	MURATA	PKM13EPYH4002-B0	Farnell	1823866	1	
24	Y1	8MHz	ABRACON - ABMM2-8.000MHZ-E2-T - CRY-STAL, 8M, 18PF CL, 6X3.6MM SMT	ABRACON	ABMM2-8.000MHZ-E2-T	Farnell	1611803	1	
25	U2	AS1360	IC REG LDO 3.3V -15A SOT23-3	ams	AS1360-33-T	Digi-Key	AS1360-33-TCT-ND	1	
26	A1	KGEA-BFCR	LF Antenna/KGEA-BFCR-B-0162J	Premo	KGEA-BFCR-B-0500F			1	
27	U3	PC24FJ64GB002	MICROCHIP - PIC24FJ64GB002-IML - MCU, 16BIT, 64K FLASH, USB-OTG, 28CFN	MICROCHIP	PIC24FJ64GB002-IML	Farnell	1778483	1	
28	U6, U7	TC4426A COA	MICROCHIP - TC4426ACOA DRIVER, MOSFET, DUAL 1.5A, SOIC8	MICROCHIP	TC4426A COA	Farnell	1332309	2	
29	U4, U5	IRF7389	INTERNATIONAL RECTIFIER IRF7389TRPBF - DUAL NIP CHANNEL MOSFET, 30V, SOIC	INTERNATIONAL RECTIFIER	IRF7389TRPBF	Farnell	1374982	2	
Approved			Notes						55