SPK

D5 D4 D3 D2 D1

R8 R6 R16 R4 R14

PAD7 C22 PAD8
C23 C21
C25
C26 C24
C18
IC4 R3
C30 R1
SW4 C8 C15

AKKU

interone PAD2 PAD1
− +

IC5 C11 C14 MIC1
C9 C10 C13 SW2
C32 C31 C12 C4

T1 R9 IC1 C3
R2

R12
R11 C4
R10
R13
SW3
CON1
R7
IC2 R20
R19 U1
C7 C2
C20 C19 R17 C1
R15 IC3 R18
C16 C17
X5 X2
C5 C6
Q1

Bottom Layer
Bottom Overlay
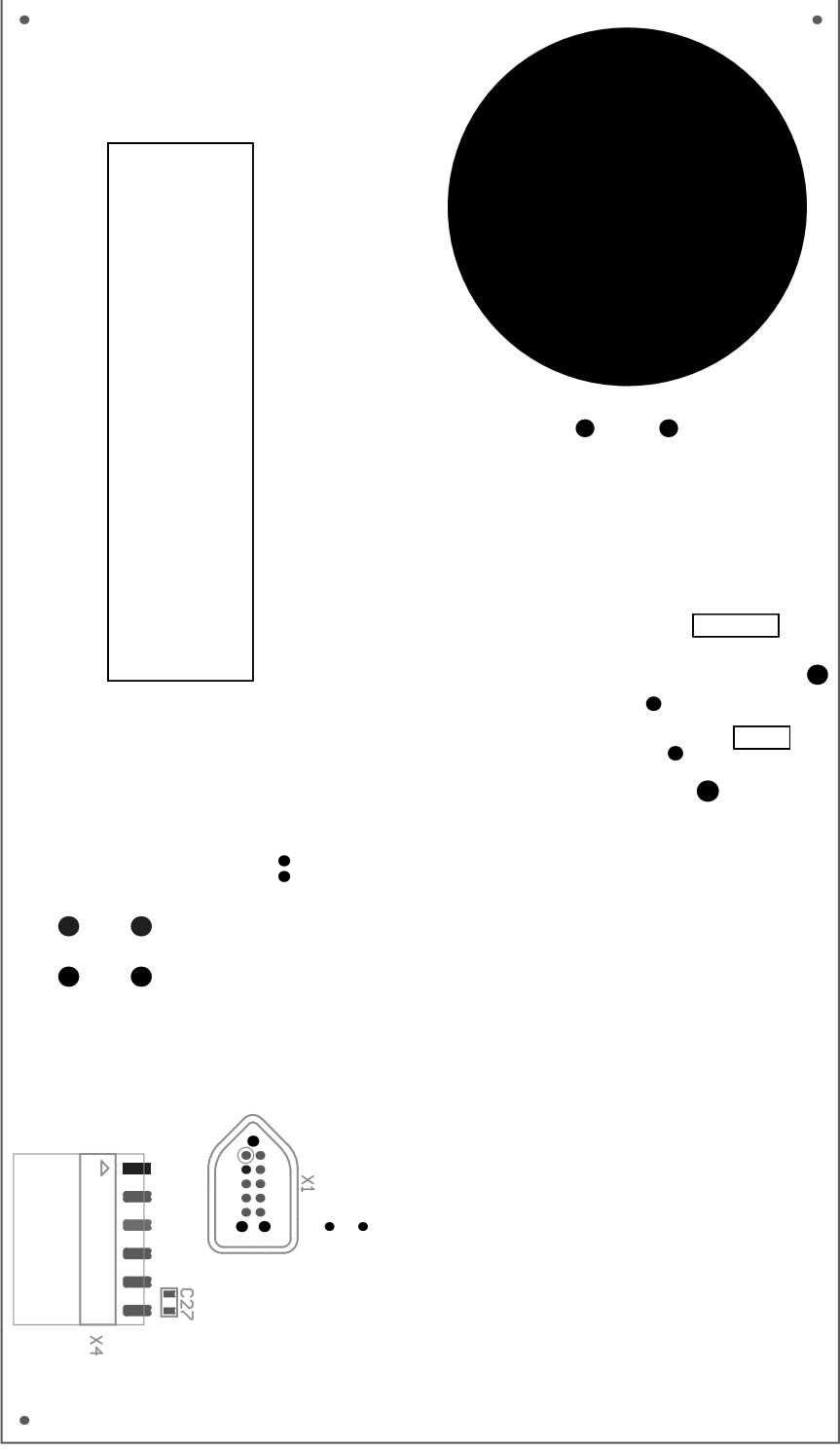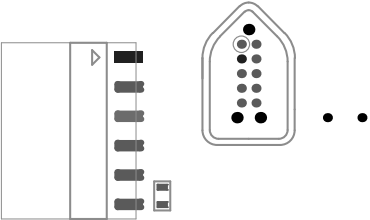
Mechanical 1

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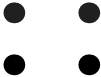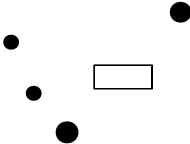Print Date: 10.11.2014
Variant: [No Variations]

X1

C27

X4

Comment

Comment

LED BLAU LED BLAU LED BLAU LED BLAU LED ROT

22R0 22R0 22R0 22R0 390R

Pad   Pad

33p
33p 33p
10p
10p 10p

1u   LM4667   0R0

390n 390n

Taster_ZUG

Comment

−   +

DG2731

10p 10p 33p
10p 10p 33p 33p   MICROPHONE_KEEGI542PBL

Taster_

SIM900D

BC848

1k0 10k0

100n

SIMHOLDER_MICRO

22R0
22R0
22R0

100n

AY2O2O2

10k0
10k0   10k0

SDHOLDER_MICRO

33p 33p
0R0

100u
10k0
10k0

TC1844-3.3

100n
8Mhz

100n

ATmega168A-AU

1u

1u   1u

100n

MICRO_USB

Comment

Comment

PCB File: GSM-Modul.PcbDoc
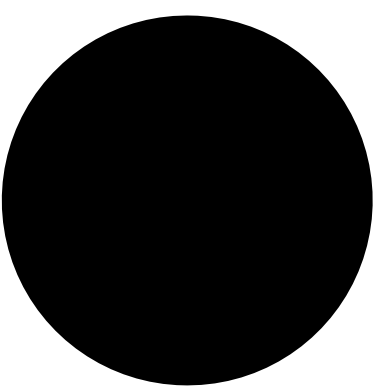Print Date: 10.11.2014
Variant: [No Variations]

Bottom Layer

Bottom Overlay

M10/ValBot

PCB File: GSM-Modul.PcbDoc
Print Date: 10.11.2014
Variant: [No Variations]

Designator	Comment	Description	Footprint	LibRef	Lieferant	Lieferant Art. Nr.	Quantity
C1	1u	10V, ±10%, X5R, -55°C --> 85°C	C_0603	1u_0603	Farnell	1759399	1
C2, C3, C4, C5, C6, C27, C30	100n	16V, ±10%, X7R, -55°C --> 125°C, Flexitherm	C_0603	100n_0603_16V	Farnell	1759016	7
C7, C12, C13, C14, C20, C21, C22, C23	33p	50V, ±5%, COG/NPO, -55°C --> 125°C, ±30ppm/°C	C_0603	33p_0603	Farnell	1828910	8
C8, C15, C31, C32	390n	16V, ±10%, X7R, -55°C --> 125°C	C_0603	390n_0603	Farnell	1865527	4
C9, C10, C11, C24, C25, C26	10p	50V, ±5%, COG/NPO, -55°C --> 125°C, ±30ppm/°C	C_0603	10p_0603	Farnell	2320799	6
C16, C17, C18	1u	10V, ±10%, X7R, -55°C --> 125°C, Flexitherm	C_0805	1u_0805_10V	Farnell	1301902	3
C19	100u	6V3, ±20%, X5R, -55°C --> 8°C	C_1210	100u_1210	Farnell	1108328	1
CON1	SDHOLDER_MICRO		CON_MICRO-SD	SDHOLDER_MICRO		2134442	1
D1	LED ROT	LED 0805, rot, 230mcd, 20mA	LED_0805	LED 0805	Farnell	2099241	1
D2, D3, D4, D5	LED BLAU	LED 0805, blau, 3.3V, 100mcd, 20mA	LED_0805	LED 0805 BLAU	Farnell	2217974	4
IC1	SIMHOLDER_MICRO		SIMHOLDER_MICRO	SIMHOLDER_MICRO		2213306	1
IC2	SIM900D	GSM-Module	SIM900D	SIM900D	TMT	1432749	1
IC3	LTC1844-3.3	3V3/150mA, LDO, Low Drop, Uin max 6.5V	SOT-23/5_R	LTC1844-3.3	Farnell	1663867	1
IC4	LM4667	AMP CLASS D 1.3W	MSOP-10	LM4667	Farnell	8181080	1
IC5	DG2731	Dual Analog Switch, LOW VOLT, DUAL SPDT	MSOP-10	DG2731DQ	Farnell	1414078	1
MIC1	MICROPHONE_KEEG1542PBL		MIC_KEEG1542PBL	MICROPHONE_KEEG1542PBL			1
PAD7, PAD8	Pad	Anschlußpad	PAD1.6BO0.8	PAD1.6BO0.8			2
Q1	8Mhz	Crystal CSTCE_G15C	CSTCE_G15C	CSTCE_G15C	Farnell	1615352	1
R1, R13, R15	0R0	250mW, ±1%, ±100ppm/°C, 75V, -55°C-->155°C, Dickschicht	R_0603	0R0_0603	Farnell	1469739	3
R2	1k0	250mW, ±1%, ±100ppm/°C, 75V, -55°C-->155°C, Dickschicht	R_0603	1k0_0603	Farnell	1738905	1
R3	nb	250mW, ±1%, ±100ppm/°C, 75V, -55°C-->155°C, Dickschicht	R_0603	0R0_0603	Farnell	1469739	1
R4, R6, R8, R10, R11, R12, R16	22R0	250mW, ±1%, ±100ppm/°C, 75V, -55°C-->155°C, Dickschicht	R_0603	22R0_0603	Farnell	1469781	7
R7, R9, R17, R18, R19, R20	10k0	250mW, ±1%, ±100ppm/°C, 75V, -55°C-->155°C, Dickschicht	R_0603	10k0_0603	Farnell	1738918	6
R14	330R	200mW, ±1%, ±100ppm/°C, 50V, -55°C-->155°C, Dickschicht	R_0603	330R_0603	Farnell	2331995	1
SW2	Taster_1	Taster B3FS1002P	SKHHAMA010	Taster_1	Farnell	1960993	1
SW3	AYZ0202	2x Umschalter. Micro	AYZ0202	SWITCH_AYZ0202	Farnell	2319973	1
SW4	Taster_ZUG	Taster Zugdingens	ZUGDING	ZUGDING			1
T1	BC848	Transistor, NPN, 30V, 100mA	SOT-23/3_BEC	BC848C	Farnell	9846670	1
U1	ATmega168A-AU	8-bit AVR Microcontroller, 16KB Flash, 512 Bytes EEPROM, 1KB SRAM, 32-pin TQFP, Industrial Grade (-40°C to 85°C)	32A_N	ATmega168A-AU			1
X1	T2050-IDC-NL	Programmieradapter 2x5Pin	T2050-IDC-NL	T2050-IDC-NL			1
X2	MICRO_USB	MICRO_USB Buchse	CON_MICROUSB	MICRO_USB	Farnell	2293755	1
X4	RJ12	6x1Header Liegend	GCT_6X1	6x_Header	Farnell	2084270	1
X5	CONN-COAXU-FL		UFL	CONN-COAXU	Farnell	1688077	1