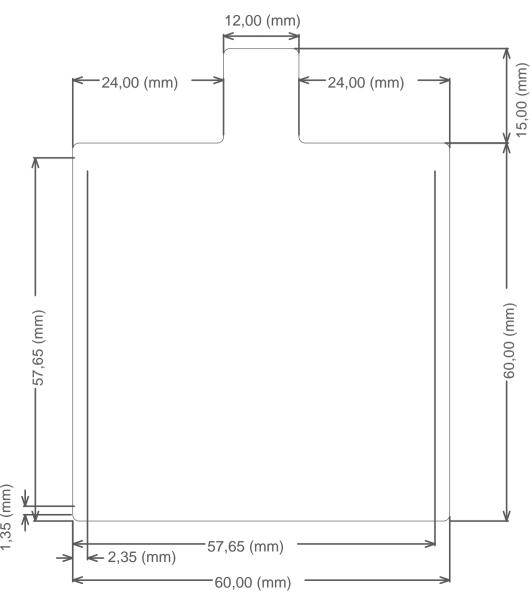
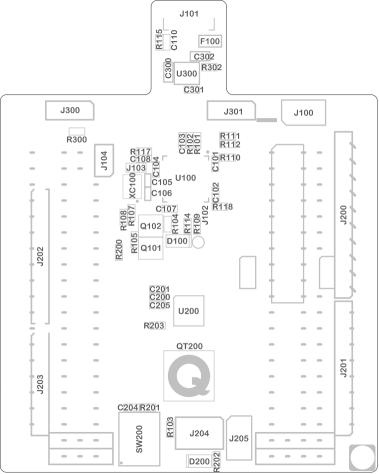
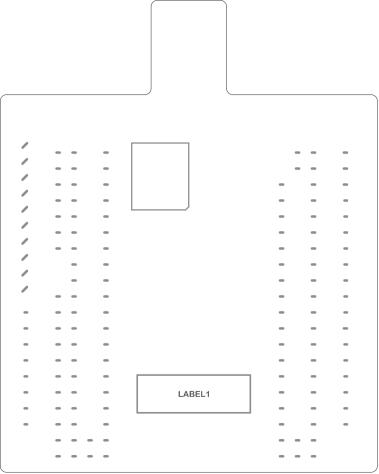
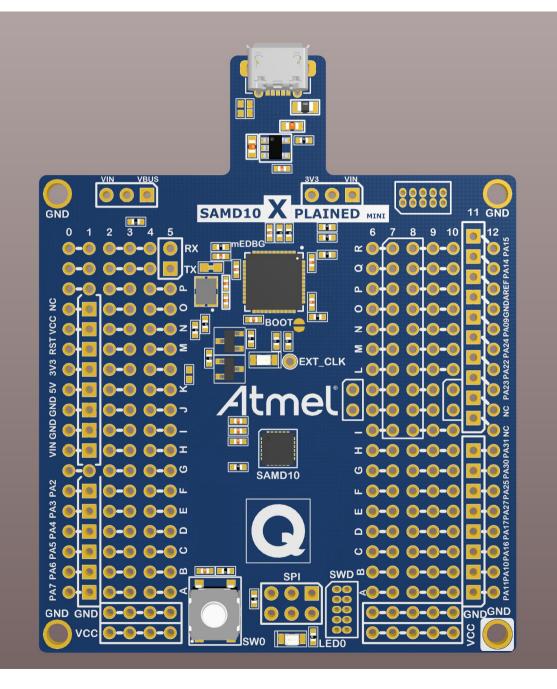


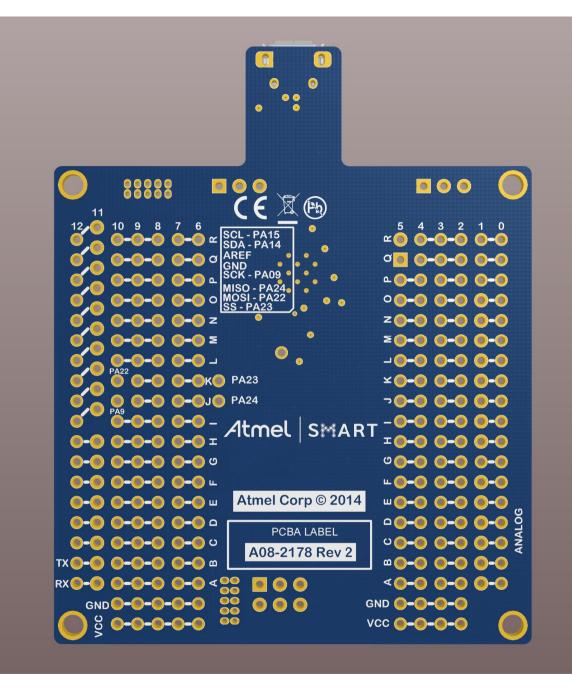
Mechanical Dimensions

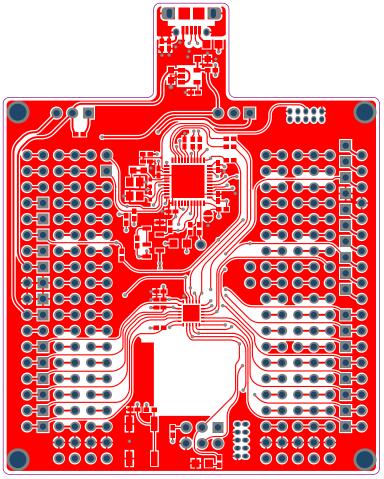


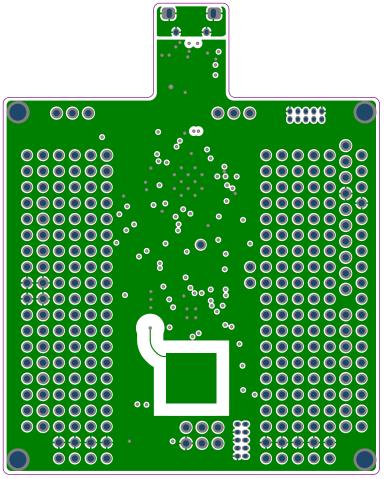


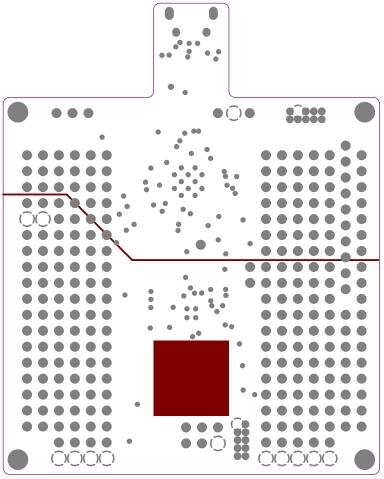


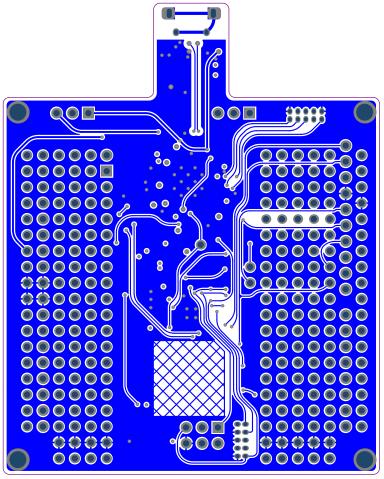












Component list

Bill of Materials Fitted For Variant [Default_assembly] of Project [ATSAMD10-XMINI.PrjPCB] (No PCB Document Selected)

Source Data From: Project:

Variant:

ATSAMD10-XMINI.PrjPCB ATSAMD10-XMINI.PrjPCB

Default_assembly

					•	
	Report Date:	06.01.2017	14:10:11		•	
	Print Date:	06.01.2017	14:09:36			
Fitted	Designator	Quantity	14.09.36 Value	Manufacturer	MPN	Description
Fitted	C101, C102, C104, C107, C108,	qualitity 9	100n	Kemet	C0402C104K4RACTU	
ritted	C200, C201, C204, C107, C108,	9	TOON	Kernet	C0402C104K4RAC10	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
Fitted	C103	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)
Fitted	C105, C106	2	12pF	Kyocera-elco	CM05CG120J50AH	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% (de19819)
Fitted	C300, C302	2	4.7uF	AVX	0603ZD475KAT2A	Ceramic capacitor, SMD 0603, X5R, 10V, ±10 %
Fitted	C301	1	10n	YAGEO CORP	CC0402KRX7R8BB103	Ceramic capacitor, SMD 0402, X7R, 25V, +/-10%
Fitted	D100	1	EL17-21SYGC	Everlight	EL17-21SYGC	LED, Green, Wave length=575nm, SMD 0805, ±70°
Fitted	D200 F100	1	EL17-21UYC/A3 MC36213	Everlight Multicomp	17-21UYC/S530-A3/TR8 MC36213	LED, Yellow, Wave length=591nm, SMD 0805, ±70° Resetable PTC fuse, lh = 0.5A, lt = 1.0A, 0805 package
Fitted	F100	1	MEDBG firmw are	Mullicomp	WC36213	MEDBG firmware
Fitted	J101	1	ZX62D-B-5PA8	HROSE	ZX62D-B-5PA8(30)	Micro USB B Connector, Standard SMT + DIP
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PP Top White Gloss
Fitted	PCB1	1	ATSAMD10-XMINI PCB			ATSAMD10-XMINI PCB documantation
Fitted	PCBADOC1	1	ATSAMD10-XMINI PCBA			ATSAMD10-XMINI PCBA documantation
- Court	Q101		DOC IRLML6402	htspartings Destiling	IRLML6402PBF	Data MOCETT 2007 2.74 analisusus DDC/ON 0.050km@V/CC 4.5V DDC/ON 0.0001
Fitted	Q101 Q102	1	IRLML6402 2N7002,215	International Rectifier NXP	RLML6402PBF 2N7002,215	P-ch. MOSFET30V, -3.7A continuous, RDS(ON)=0.05Ohm@VGS=-4,5V, RDS(ON)=0.08Ohm@VGS=-2.5V N-Channel MOSFET. 60V, 0.300A continuous, 1.2A Peak. RDS(ON) = 3.8Ohm@VGS=4.5V, VGS(th)-2.5V
Fitted	R101, R102	2	2N/002,215 22R	Samsung	RC100SF22R0CS	Thick film resistor, SMD 0402, 1/16W, 1% (de23607)
Fitted	R103	1	3.3k	ASJ	CR10-3301-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R104, R105, R117, R118, R201,	6	100k	ASJ	CR10-1003-FK	Thick film resistor, SMD 0402, 1/16W, 1%
	R203					
Fitted	R107, R108, R202	3	1k	ASJ	CR10-1001-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R109, R111, R112	3	330R	ASJ	CR10-3300-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R110, R300, R302 R114	3	0R 680R	(n/a) ASJ	RMCF0402ZT0R00 CR10-6800-FK	RES 0.0 OHM1/16W 0402 SMD Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	SW200	1	SKRAAKE010	ALPS	SKRAAKE010	6.2x6.2 mm SMD tact switch, same as A08-0091 but less force is needed
Fitted	TEST2	1	Test SW for for A09-2378	ALFO	SKIMAKEUTU	Test SW for for A09-2376. ATSAMD10-XMINI
Fig. 1			Xplained Mini Test			Fixture Test Instructions for ATmega168-XMINI
Fitted	TESTDOC1	1	Apiali leu iviii ii Test			
		1	Instructions			Ť
Fitted	U100	1	Instructions ATmega32U4-MUR	ATMEL	ATmega32U4-MUR	ATmega32U4 QFN package
Fitted Fitted	U100 U200	1	Instructions ATmega32U4-MUR ATSAMD10D14A-MUT	ATMEL	ATSAMD10D14A-MUT	ATmega32U4 QFN package Atmel 32-bit RISC MCU
Fitted Fitted Fitted	U100 U200 U300		Instructions ATmega32U4-MUR ATSAMD10D14A-MUT LP2985-33DBV	ATMEL Texas Instruments	ATSAMD10D14A-MUT LP2985-33DBV	ATmega32L4 QFN package Atmel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap)
Fitted Fitted	U100 U200 U300 XC100	1 1 1	Instructions ATmega32U4-MUR ATSAMD10D14A-MUT	ATMEL	ATSAMD10D14A-MUT	ATmega32U4 QFN package Atmel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15FPM, ESR=80ohm(Max.
Fitted Fitted Fitted Not Fitted	U100 U200 U300 XC100 C110	1 1 1 0	Instructions ATmega32U4-MUR ATSAMD10D14A-MUT LP2985-33DBV 16.0MHz 4.7n	ATMEL Texas Instruments Epson Toyocom PHYCOMP	ATSAMD10D14A-MUT LP2985-33DBV TSX-3225 16.0000MF09Z-AC3 2238 587 15632	ATmega32L4 QFN package
Fitted Fitted Fitted Fitted Not	U100 U200 U300 XC100	1 1 1	Instructions ATmega32U4-MUR ATSAMD10D14A-MUT LP2985-33DBV 16.0M-tz	ATMEL Texas Instruments Epson Toyocom	ATSAMD10D14A-MUT LP2985-33DBV TSX-3225 16.0000MF09Z-AC3	ATmega32U4 QFN package Atmel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15FPM, ESR=80ohm(Max.
Fitted Fitted Fitted Not Fitted Not	U100 U200 U300 XC100 C110	1 1 1 0	Instructions ATmega32U4-MUR ATSAMD10D14A-MUT LP2985-33DBV 16.0MHz 4.7n	ATMEL Texas Instruments Epson Toyocom PHYCOMP	ATSAMD10D14A-MUT LP2985-33DBV TSX-3225 16.0000MF09Z-AC3 2238 587 15632	ATmega32U4 QFN package
Fitted Fitted Fitted Fitted Not Fitted Not Fitted Not Fitted Not	U100 U200 U300 XC100 C110	1 1 1 0	Instructions ATmegia2U-MUR ATSAMD10D14A-MUT LP2985-33DBV 16.0MHz 4.7n PN HEADER 2x5	A TMEL Texas Instruments Epson Toyocom PHY COMP Garry	ATSAND10D14A-MUT LP2985-330BV TSX-3225 16.0000MF09Z-AC3 2238 587 15632 176-2-010-0-T-XS0-0730	ATmega32U4 QFN package Atmega2-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16M-tz uXtal, 3.2 x 2.5 mm SMD, CL-9pF, 15FPM, ISSR-80ohm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM
Fitted Fitted Fitted Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not	U100 U200 U300 XC100 C110 J100, J205	1 1 1 0 0	Instructions ATmega32U4-MUR ATSAMDIO14A-MUT LP2985-33D8V 16.0M-tz 4.7n PN HEADER 2x5 HMTSW-102-23-F-S-237	ATMEL Texas Instruments Epson Toyocom PHYCOMP Garry SAMTEC	ATSAMD10D14A-MUT LP2985-330BV TSX-3225 16.0000MF09Z-AC3 2238 587 15632 176-2-010-0-T-XS0-0730 HMTSW-102-23-F-S-237	ATmega32U4 QFN package Atmeg 32-bit RISC MCU LDO 3.3V 150m & S0723-5 1.5% (cer. cap) 16M-tz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15PFM, ESR=80ohm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM
Fitted Fitted Fitted Fitted Not	U100 U200 U300 XC100 C110 J100, J205 J104	1 1 1 0 0	Instructions ATmega32U4-MUR ATSAMD10D14A-MUT LP2985-331BW 16.0M-bz 4.7n PN HEADER 2x5 HMTSW-102-23-F-S-237 SSQ-110-21-F-S	ATMEL Texas Instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC	ATSAMD10D14A-MJT LP2985-33DBV TSX-3225 16.0000MF092-AC3 2238 587 15632 176-2-010-0-T-XS0-0730 HMTSW-102-23-F-S-237 SSQ-110-21-F-S	ATmega32U4 QFN package Atmel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16M-tz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15PFM, ESR=800hm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +i-10% (de35287) 2x5 pin header, 1.27mm pitch, T+M 1x2 pin header, 2.54mm pitch, Pin-in-Paste T+M 1x10 receptacle pin header, low insertion force, 2.54mm pitch T+M, Pin in Paste
Fitted Fitted Fitted Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Fitted Fitted Not Fitted Fitted Fitted Not Fitted	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202	1 1 1 0 0	Instructions	ATMEL Texas Instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC	ATSAND10D14A-MUT LP2985-330BV TSX-3225 16.0000MF092-AC3 2238 587 15632 176-2-010-0-T-XS0-0730 HMTSW-102-23-F-S-237 SSQ-110-21-F-S SSQ-108-21-F-S	A Tmega32U4 QFN package Armel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16M+z wXxxx 3.2 x 2.5 mm SMD, CL=9pF, 15PFM, ESR=80ohm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +1-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste
Fitted Fitted Fitted Fitted Not	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202	1 1 1 0 0 0	Instructions	ATMEL Texas Instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC	ATSAMD10D14A-MUT LP2965-33D8V TSX-3225-16.0000MF092-AC3 2238-587-15632 176-2-010-0-T-XS0-0730 HMTSW-102-23-F-S-237 SSQ-110-21-F-S SSQ-108-21-F-S SSQ-106-21-F-S	A Tmega32U4 QFN package Armel 32-bit RiSC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz WXtal, 3.2 x 2.5 mm SMD, CLeely-5, ISPML (ESR-800.hm/Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste
Fitted Fitted Fitted Fitted Not	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202 J203 J204	1 1 1 0 0 0 0 0	Instructions	ATMEL Texas Instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC	ATSAMD10D14A-MUT LP2985-33D8V TSX-3225 16.0000MF092-AC3 2238 587 15632 176-2-010-0-T-X50-0730 HMTSW-102-23-F-S-237 SSQ-110-21-F-S SSQ-106-21-F-S MTSW-103-08-L-D-276	A Tmega32U4 QFN package Armel 32-bit RiSC MCU LDO 3.3V 150mA SDT23-51.5% (cer. cap) 16MHz WXtal. 3.2 x 2 Fm SMD, CL-e9F, 15PML ESR-80ohm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM. 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM. 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM. 2x3 pin header, 2.54 mm pitch, THM.
Fitted Fitted Fitted Fitted Not	U100 U200 U800 XG100 C110 J100, J205 J104 J200 J201, J202 J203 J204 J300, J301	1 1 1 0 0 0 0 0 0	Instructions	ATMEL Texas instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC	ATSAMD10D14A-MUT LP2985-33DBV TSX-9225 16.0000MF092-AC3 2238 587 15632 176-2-010-0-T-XS0-0730 HMTSW-102-23-F-S-237 SSC-110-21-F-S SSC-108-21-F-S SSC-108-21-F-S MTSW-103-08-L-D-276 HMTSW-103-08-L-D-276	ATmega32L4 QFN package Armel 32-bit RiSC MCU LDO 3.3V 150rnA 50723-5 1.5% (cer. cap) 16MHz uXtal. 3.2 x 2 5m SMD, CLeepF, 15PM, ESR-800hm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM 2x3 pin header, 2.54mm pitch, THM 1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1mm hole
Fitted Fitted Fitted Fitted Fitted Not Fitted Fitted Not Fitted Fitted Not Fitted Fitted Fitted Not Fitted Fitted Fitted Fitted Fitted Fitted Fitted Fitted Fitted	U100 U200 U300 U500 XC100 C110 J100, J205 J104 J200 J201, J202 J203 J204 J300, J301 R115	1 1 1 0 0 0 0 0 0 0	Instructions	ATMEL Texas instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC ASJ	ATSAMD10D14A-MJT	ATmega32L4 OFN package Armel 32-bit RBCMCU LDO 3.3V 150rm \$ S0723-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2 Fm SMD, CLaepf, 15PM, ESR-800hm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM 2x3 pin header, 2.54mm pitch, THM 1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1rm hole Thick film resistor, SMD 0402, 1/16W, 1%
Fitted Fitted Fitted Fitted Not	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202 J203 J204 J300, J301 R115 R200	1 1 1 0 0 0 0 0 0 0 0 0	Instructions	ATMEL Texas instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC ASJ	ATSAMD10D14A-MJT	ATmega32U4 OFN package Armel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2 Fm SMD, CL-elp-6, 15FM, ESR-800chm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM 2x3 pin header, 2.54 mm pitch, THM 1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1mm hole Thick film resistor, SMD 0402, 1/16W, 1%
Fitted Fitted Fitted Fitted Fitted Not Fitted	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202 J203 J204 J300, J301 R115 R200	1 1 1 0 0 0 0 0 0 0 0 0	Instructions	ATMEL Texas instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC ASJ	ATSAMD10D14A-MJT	ATmega32U4 OFN package Armel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2 Fm SMD, CL-elp-6, 15FM, ESR-800chm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM 2x3 pin header, 2.54 mm pitch, THM 1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1mm hole Thick film resistor, SMD 0402, 1/16W, 1%
Fitted Fitted Fitted Fitted Fitted Not Fitted	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202 J203 J204 J300, J301 R115 R200	1 1 1 0 0 0 0 0 0 0 0 0	Instructions	ATMEL Texas instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC ASJ	ATSAMD10D14A-MJT	ATmega32U4 OFN package Armel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2 Fm SMD, CL-elp-6, 15FM, ESR-800chm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM 2x3 pin header, 2.54 mm pitch, THM 1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1mm hole Thick film resistor, SMD 0402, 1/16W, 1%
Fitted Fitted Fitted Fitted Fitted Not Fitted	U100 U200 U300 XC100 C110 J100, J205 J104 J200 J201, J202 J203 J204 J300, J301 R115 R200	1 1 1 0 0 0 0 0 0 0 0 0	Instructions	ATMEL Texas instruments Epson Toyocom PHY COMP Garry SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC SAMTEC ASJ	ATSAMD10D14A-MJT	ATmega32U4 OFN package Armel 32-bit RISC MCU LDO 3.3V 150mA SOT23-5 1.5% (cer. cap) 16MHz uXtal, 3.2 x 2 Fm SMD, CL-elp-6, 15FM, ESR-800chm(Max. Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) 2x5 pin header, 1.27mm pitch, THM 1x2 pin header, 2.54mm pitch, Pin-in-Paste THM 1x10 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x8 receptacle pin header, low insertion force, 2.54mm pitch THM, Pin in Paste 1x6 receptacle pin header, low insertion force, 2.54mm pitch THM 2x3 pin header, 2.54 mm pitch, THM 1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1mm hole Thick film resistor, SMD 0402, 1/16W, 1%