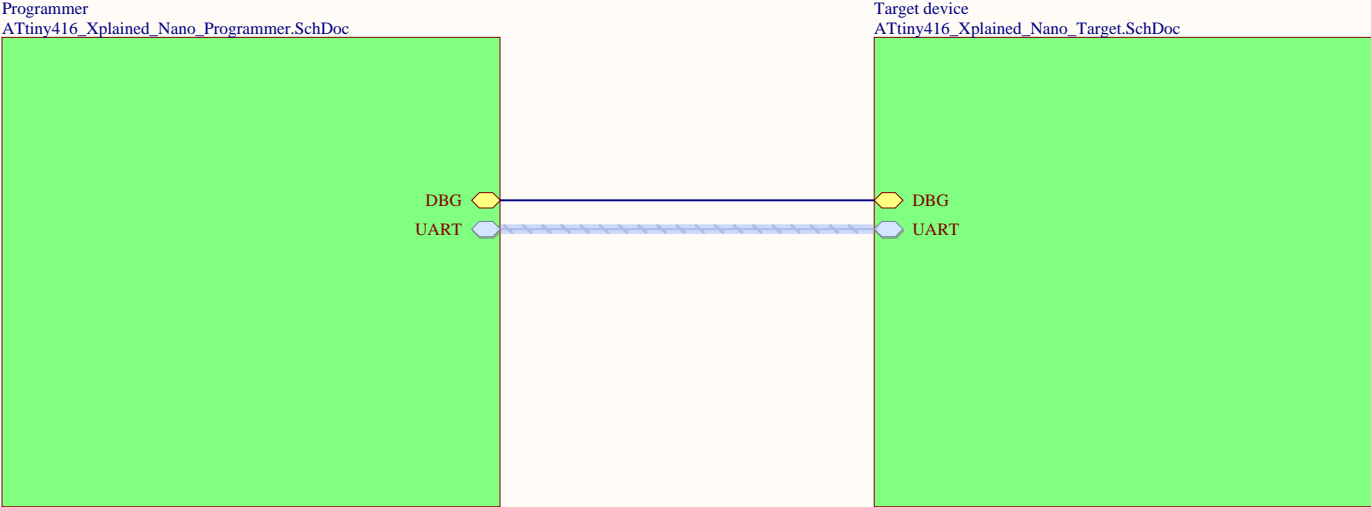



# ATtiny416 Xplained Nano



LABEL1

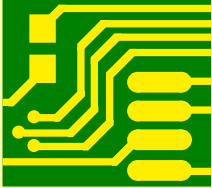


Product number/revision  
Serial number

Label PCBA

**PCB**


PCB1



A08-2694


**PCBA Documentation**

PCBADOC1




A12-1204

TESTDOC1



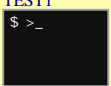
A12-1205

FW1




A11-0252

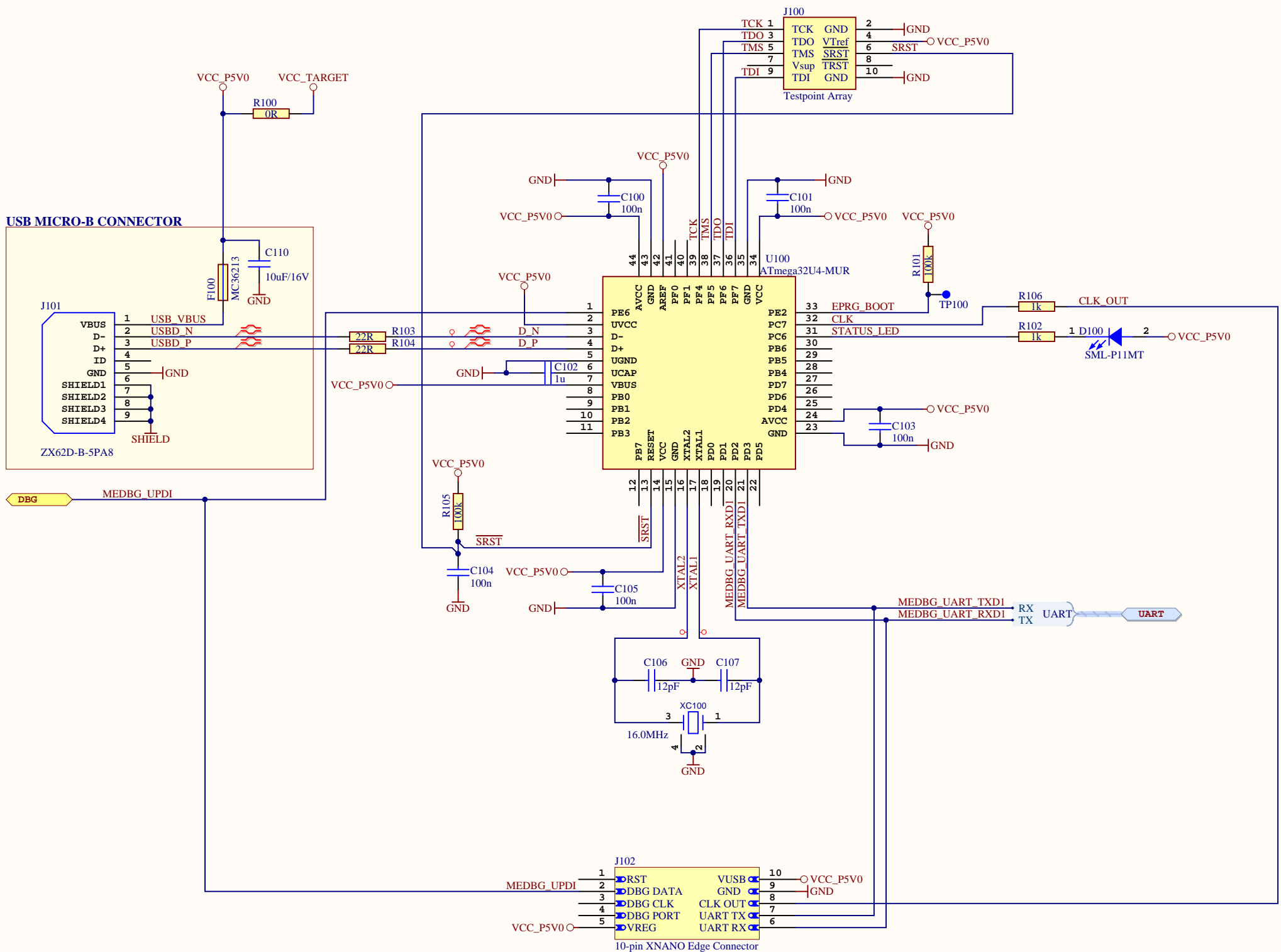
TEST1



A11-0361

Drawn By: Microchip Norway	 <b>MICROCHIP</b>	
Engineer: AH		
Project Title <b>ATtiny416 Xplained Nano</b>		<i>Designed with</i> <b>Altium</b> <a href="http://Altium.com">Altium.com</a>
Sheet Title <b>Top Level</b>		
Size A3	PCB Assembly Number: A09-2795	PCBA Revision: 4
	PCB Number: A08-2694	PCB Revision: 2
File: ATtiny416_Xplained_Nano_TopLevel.SchDoc		
Page: 1 of 3		

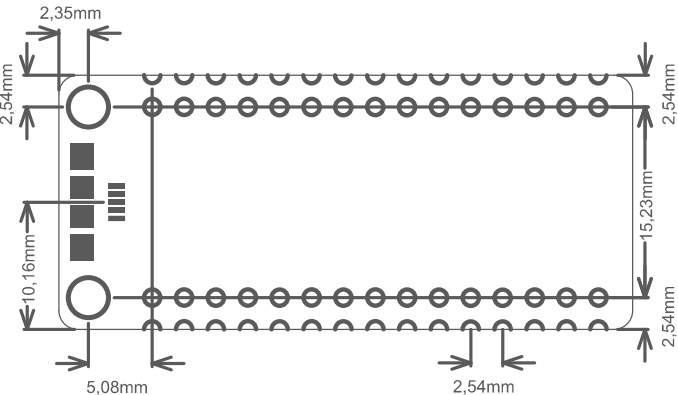




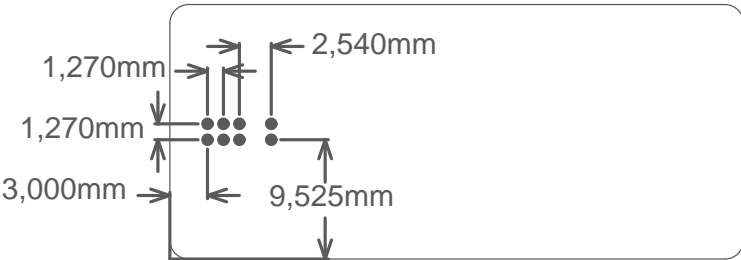
# Mechanical Dimensions

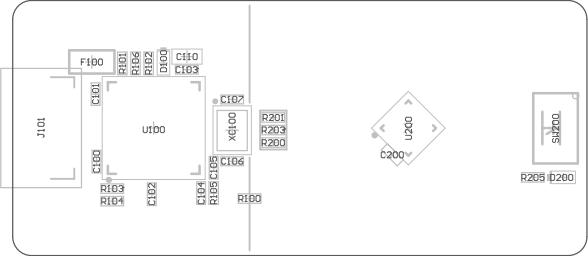


# Connector Placement



# Test Point Placement







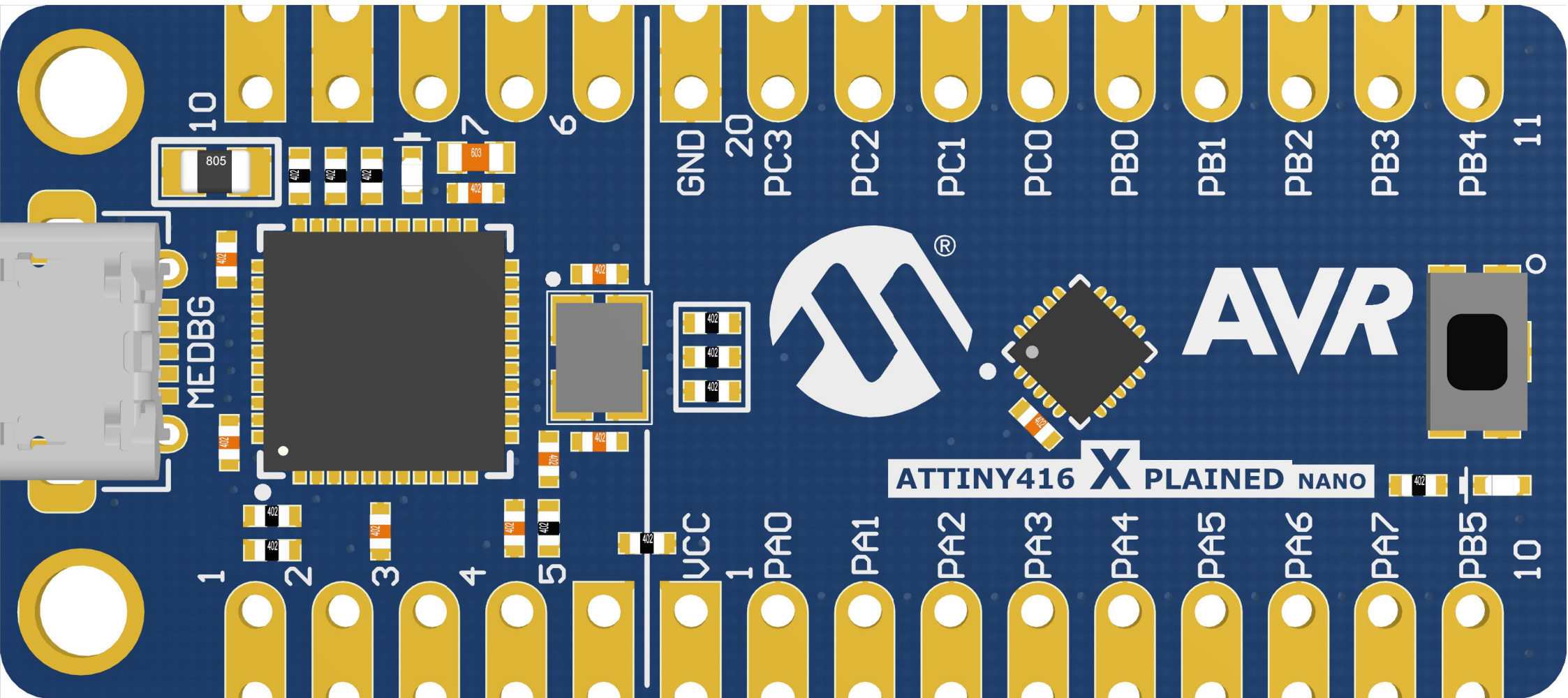
TP100



J100







PB4 PB3 PB2 PB1 PB0 PC0 PC1 PC2 PC3 GND RX TX CLK GND VUSB

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PCBA LABEL

A08-2694 Rev 2

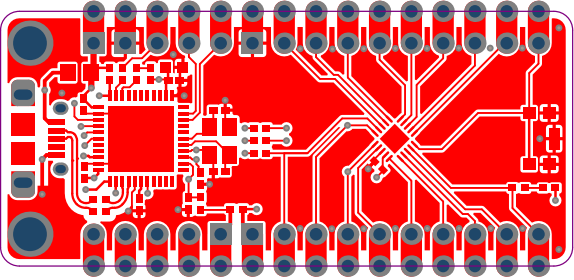
AVR

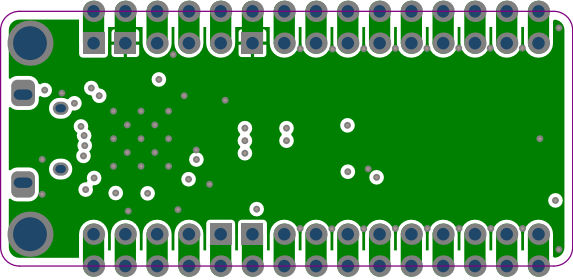


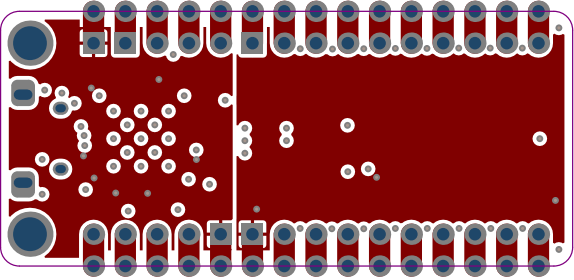
PB5 PA7 PA6 PA5 PA4 PA3 PA2 PA1 PA0 VCC VREG - - UPDI -

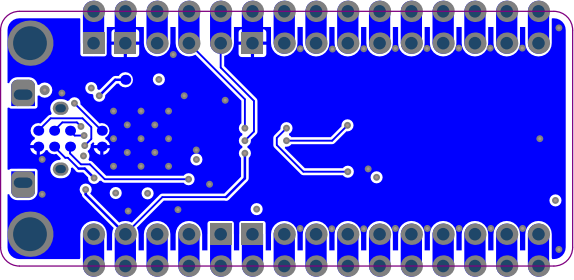
GND

GND









# Component list

Bill of Materials Fitted For Variant [Default\_assembly] of Project [ATtiny416\_Xplained\_Nano.PrjPCB] (No PCB Document Selected)

Source Data From:

ATtiny416\_Xplained\_Nano.PrjPCB

Project:

ATtiny416\_Xplained\_Nano.PrjPCB

Variant:

Default\_assembly

Report Date: 05.10.2017 16:58:45

Print Date: 05.10.2017 16:58:32



Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C100, C101, C103, C104, C105, C200	6	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
Fitted	C102	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)
Fitted	C106, C107	2	12pF	Kyocera-elco	CM05CG120J50AH	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% (de19819)
Fitted	C110	1	10uF/16V	Taiyo Yuden	EMK107BBJ106MA-T	Ceramic capacitor, SMD 0603, X5R, 16V, 10UF ± 20% (High Density)
Fitted	D100	1	SML-P11MT	ROHM	SML-P11MT-T86	LED, SMD 0402, Green, Wave length=569nm, 2.1mcd @ (1mA, 1.9Vf)
Fitted	D200	1	SML-P11YT	ROHM	SML-P11YT-T86	LED, SMD 0402, Yellow, Wave length=586nm, 7.6mcd @ (1mA, 1.9Vf)
Fitted	F100	1	MC36213	Multicomp	MC36213	Resetable PTC fuse, Ih = 0.5A, It = 1.0A, 0805 package
Fitted	FW1	1	MEDBG firmw are			MEDBG firmw are
Fitted	J101	1	ZX62D-B-5PA8	HIROSE	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	ATtiny416 Xplained Nano PCB documentation			ATtiny414 Xplained Nano PCB documentation
Fitted	PCBADO C1	1	A09-2795 PCBA Files			ATtiny414 Xplained Nano PCBA documentation
Fitted	R100	1	0R	(n/a)	RMCF0402ZT0R00	RES 0.0 OHM 1/16W 0402 SMD
Fitted	R101, R105	2	100k	ASJ	CR10-1003-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R102, R106, R200, R201, R203, R205	6	1k	ASJ	CR10-1001-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R103, R104	2	22R	Samsung	RC100SF22R0CS	Thick film resistor, SMD 0402, 1/16W, 1% (de23607)
Fitted	SW200	1	KMR221G	ITT cannon	KMR221G	Microminiature Tact Switch for SMT
Fitted	TEST1	1	ATtiny416 Xplained Nano test			Fixture test for ATtiny414 Xplained Nano
Fitted	TESTDOC1	1	ATtiny416 Xplained Nano Test Instructions			ATtiny414 Xplained Nano Test Instructions
Fitted	U100	1	ATmega32U4-MUR	ATMEL	ATmega32U4-MUR	ATmega32U4 QFN package
Fitted	U200	1	ATtiny416-MFR	Microchip	ATTINY416-MFR	AVR 8-bit RISC MCU
Fitted	XC100	1	16.0MHz	Epson Toyocom	TSX-3225 16.0000MF09Z-AC3	16MHz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15PPM, ESR=80ohm(Max.
		35				

Approved

Notes