

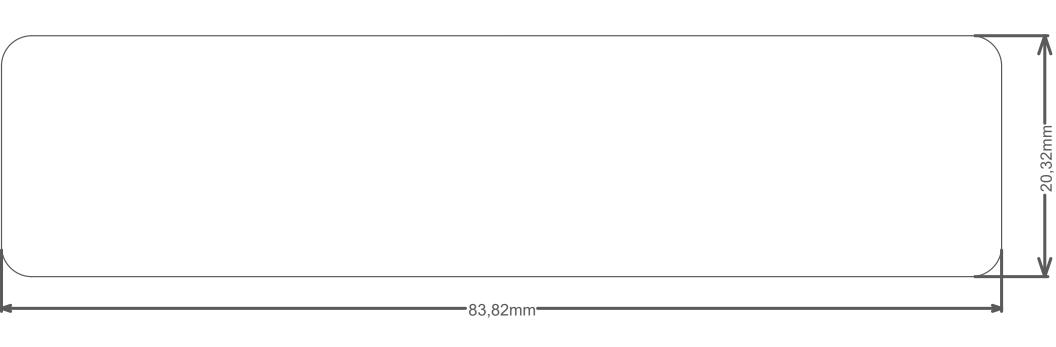
B Assembly Rev 2:  In Charge:  In Superior topical and an arest are interested by a superior topical and an arest are interested by a superior topical and an arest are interested by a superior topical and an arest are interested by a superior topical and an arest are interested by a superior topical and a superior topic	PCB Assembly Rev 1:	Revision	History		
The state of the s	Design Changes:				
B Assembly Rev 2:  In Charge:	Initial Design				
CB Assembly Rev 2:  gar Changes:  In drop consider included to delagorate and current  construction of Assembly Rev 3:  It would be Carrent Control and Assembly Rev 3:  It would be Car	PCB:				
gr Changes:  Its degree conceive epidated is staggered and current systems of the production of the pr	CB revision 1				
The days corrector updated to ablagated and current suscent depend and of Adel pull-lover on gate of the MoSFET (1910), and removed descepting from the pull-lover of the pull	PCB Assembly Rev 2:				
Tervision 2  B Assembly Rev 3:  Ign Changes:  Igned prints of the edge connector  Igned prints (2000) to available type.  Intervision 3  Tervision 3	Design Changes:				
Tervision 2  B Assembly Rev 3:  Ign Changes:  Igned prints of the edge connector  Igned prints (2000) to available type.  Intervision 3  Tervision 3	ard edge connector updated to staggered and current lasurement footprint added. Added pull-down on gate of set MOSFET (1010), and removed decoupling from MD21 reset line.Changed Target reset pull-up value				
PB Assembly Rev 3:  1910 Changes  1910 Changes  1917 To revision 3  1917 To revision 3  1918 To revision 3  1918 To revision 3  1918 To revision 3  1918 To revision 3	m 10UK to 47K to ease production.				
CB Assembly Rev 3:  Ign Changes: Inged pirout of the edge connector of the edge	B:				
Drawn By: The Transparent Tile  BOTISES TOLS Corinsely, Name  A STATE OF THE TOLER T	PCB Assembly Rev 3:  Design Changes:				
TF Engineer TF Projet Title	Design Changes:  Changed pinout of the edge connector Changed default crystal (XC200) to available type.  PCB:				
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Project Title Project Title Project Title Project Title	Design Changes:  Changed pinout of the edge connector Changed default crystal (XC200) to available type.  PCB:				
PIC18F57043 Curiosity Nano	Design Changes:  Changed pinout of the edge connector Changed default crystal (XC200) to available type.  PCB:			Drawn By:	
	usign Changes:  langed pinout of the edge connector langed default crystal (XC200) to available type.			TF Engineer:	<b>MICROCHI</b>

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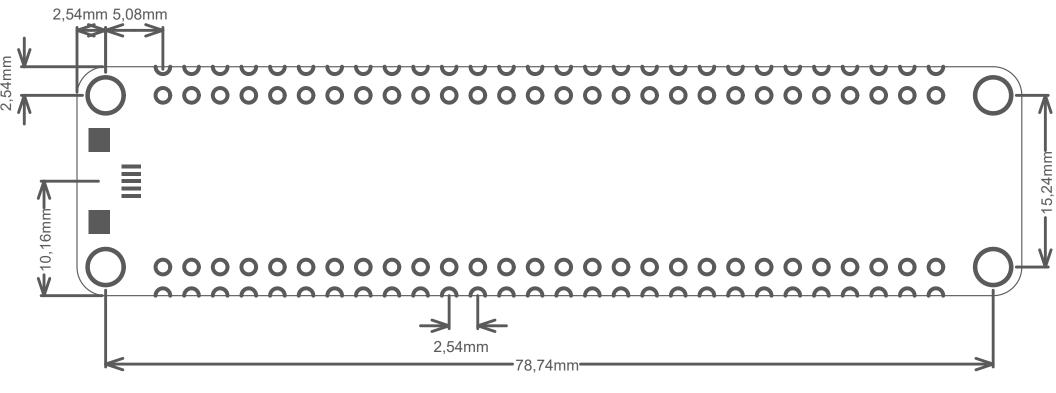
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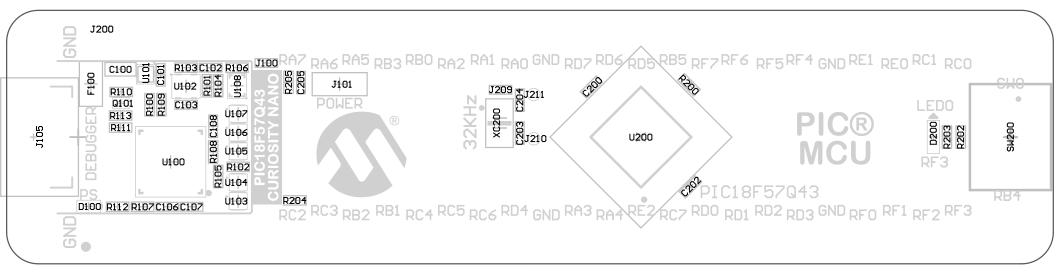


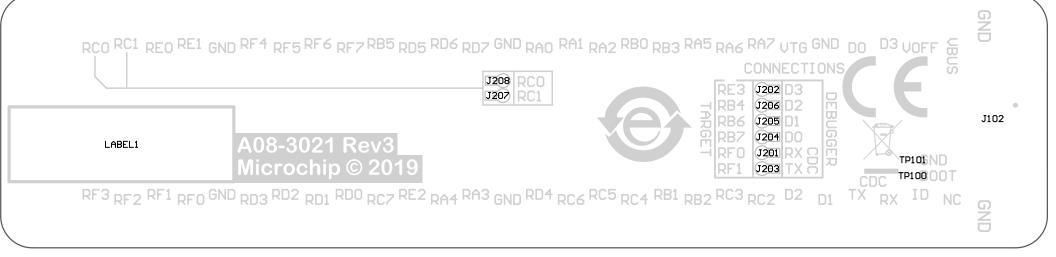
## Connector Placement

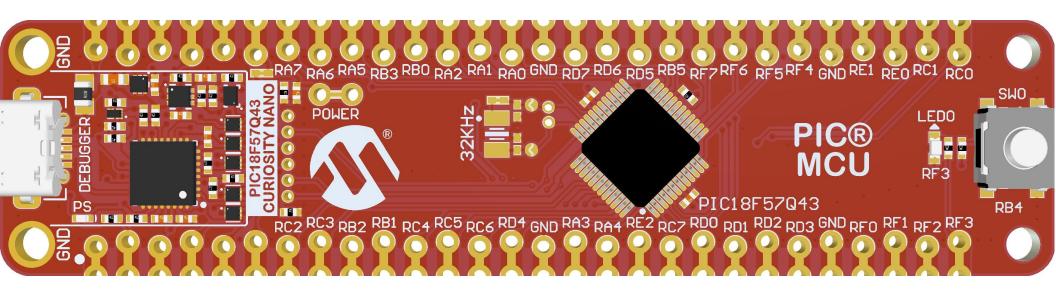


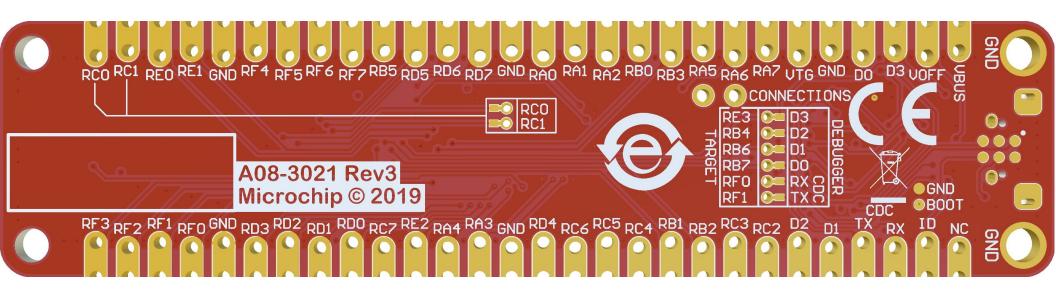
## Test Point Placement

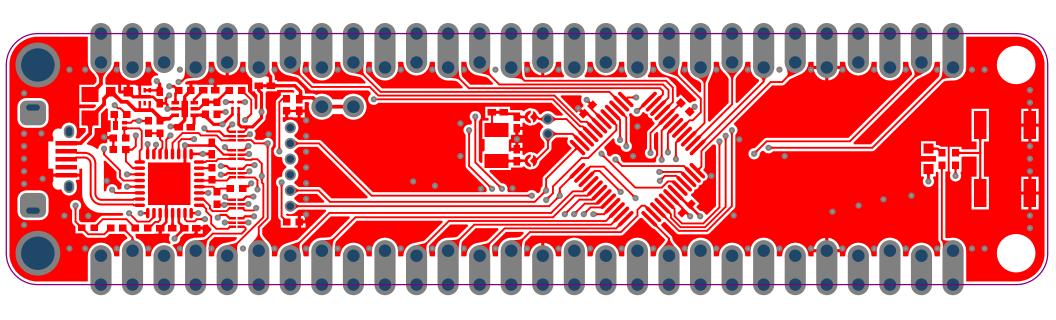


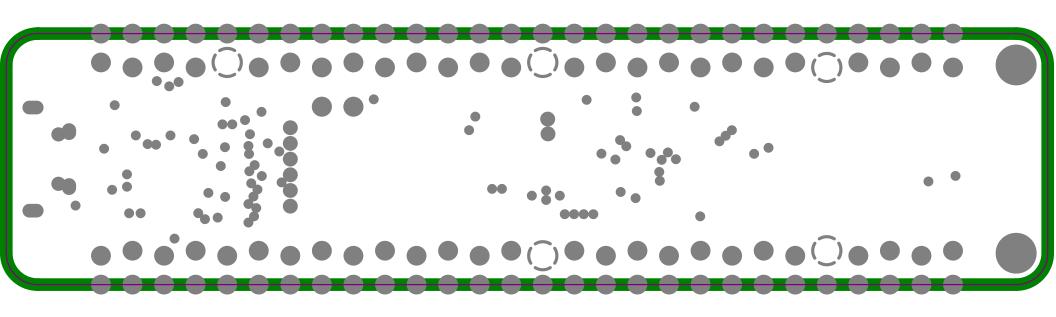


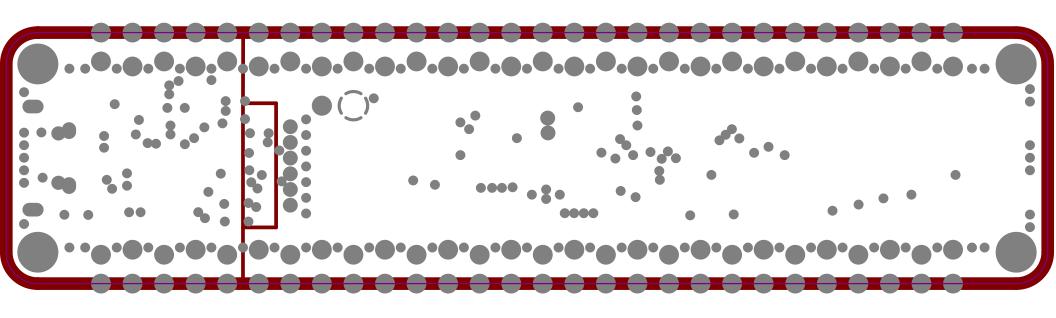


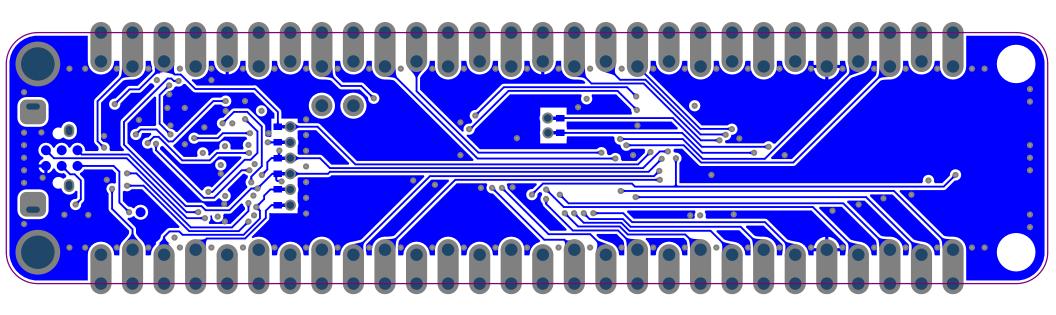












## **Component list**

Bill of Materials Fitted for Variant [Default Assembly] of Project [PIC18F57Q43\_Curiosity\_Nano.PrjPcb] (No PCB Document Selected)

Source Data From:

PIC18F57Q43\_Curiosity\_Nano.PrjPcb

Project:

PIC18F57Q43\_Curiosity\_Nano.PrjPcb

Variant:

Default Assembly



	Report Date:	26.10.2020	08:17			MICROCHIP		
F14 1	Print Date:	26.10.2020	08:17:07 Value	Manufacturer	MPN			
Fitted	Designator	Quantity	1.11			Description		
Fitted	C100	1	4.7uF	WALSIN Technology Corporation	0603X475K100CT	Ceramic capacitor, SMD 0603, X5R, 10V, 10% (de31036)		
Fitted	C101	1	2.2uF	Kemet	C0402C225M9PA C	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-20%		
Fitted	C102, C107, C108, C200, C202	5	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%		
Fitted	C103, C205	2	2.2uF	TDK	C1005X5R1A225K	CAP CER 2.2UF 10V 10% X5R 0402		
Fitted	C106	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)		
Fitted	D100	1	GREEN LED	ROHM	SML-P12MTT86R	LED, SMD 0402, Green, Wave length=569nm, 2.1mcd @ (1mA, 1.9Vf)rohm		
Fitted	D200	1	YELLOW LED	ROHM	SML-D12Y1WT86	LED, SMD 0603, Yellow , Wave length=590nm, 100mcd @ (20mA, 2.2Vf) rohm		
Fitted	F100	1	MC36213	Multicomp	MC36213	Resetable PTC fuse, lh = 0.5A, lt = 1.0A, 0805 package		
Fitted	FW1	1	nEDBG firmw are			nEDBG firmw are		
Fitted	J105	1	MU-MB0142AB2-269	Allen Creations Corp.	MU-MB0142AB2-269	USB micro AB, Surface mount signals and DIP shield		
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PP Top White Gloss		
Fitted	PCB1	1	PIC18F57Q43 Curiosity Nano PCB documentation			PIC18F57Q43 Curiosity Nano PCB documentation		
Fitted	PCBADOC1	1	A09-3290 PCBA files			PIC18F57Q43 Curiosity Nano PCBA documentation		
Fitted	Q101	1	DMN65D8LFB	Diodes Incorporated	DMN65D8LFB-7	N-channel MOSFET, DFN1006-3 (SOT883), 60V, 330mA, 40hm		
Fitted	R100, R101, R102, R103, R105, R109, R111, R113, R200, R204, R205	11	47k	KOA	RK73H1ETTP4702F	Thick film resistor, SMD 0402, 1/16W, 1%		
Fitted	R104	1	27k	Yageo	RC0402FR-0727KL	Thick film resistor, SMD 0402, 1/16W, 1%		
Fitted	R106	1	33k	ASJ Holdings	CR10-3302-FK	Thick film resistor, SMD 0402, 1/16W, 1%		
Fitted	R107, R108, R110, R112, R202, R203	6	1k	ASJ Holdings	CR10-1001-FK	Thick film resistor, SMD 0402, 1/16W, 1%		
Fitted	SW200	1	TS604VM1-035CR	Dailyw ell Electronics Co.LTD	TS604VM1-035CR-R	SWITCH, SMD, 260gf, 6.4mm X 6.2mm		
Fitted	TEST1	1	PIC18F57Q43 Curiosity Nano test			Fixture test for PIC18F57Q43 Curiosity Nano		
Fitted	TESTDOC1	1	Curiosity Nano Test Instructions			Generic Test Instructions for Curiosity Nano		
Fitted	U100	1	SAMD21E18A-MUT	Microchip	ATSAMD21E18A-MUT	32-bit RISC MCU 32pin		
Fitted	U101	1	MIC5528-3.3YMT	Microchip	MIC5528-3.3YMT-T5	LDO 3.3V 0.5A 6TDFN		
Fitted	U102	1	MIC5353	Microchip	MIC5353YMT-TR	500mA Ultra Low Dropout LDO regulator, 2% accuracy, 1.6x1.6mmMLF		
Fitted	U103, U104, U105, U106, U107	5	74LVC1T45FW4-7	Diodes Incorporated	74LVC1T45FW4-7	Single-Bit Dual-Supply Transceive, 1.65-5.5 Translation and 3-State Outputs		
Fitted	U108	1	MIC94163	Microchip	MIC94163YCS-TR	Loadswitch, Rds(on) = 14.5mohm, 1.0mm x 1.5mm WLCSP, reverse blocking		
Fitted	U200	1	PIC18F57Q43T-I/PT	Microchip	PIC18F57Q43T-I/PT	PIC18F57Q43 microcontroller, 48-pin TQFP 7mm x 7mm x 1.0mm		
Not	C203, C204	0	8.2p	Yageo	CC0402CRNPO9BN8R2	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5%		
Fitted	V0000		00.700111		40007.00.700111.7.7	0 1 0 700 1 0 70 5 500 70 0 0 0 0 0 0 0 0 0		
Not Fitted	XC200	0	32.768kHz	Abracon	ABS07-32.768kHz-7-T	Crystal, 32.768kHz, CL=7.0pF, ESR=70kOhm, SMD LxW=3.2 x 1.5mm, 20ppm		
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Approv	ed		Notes					