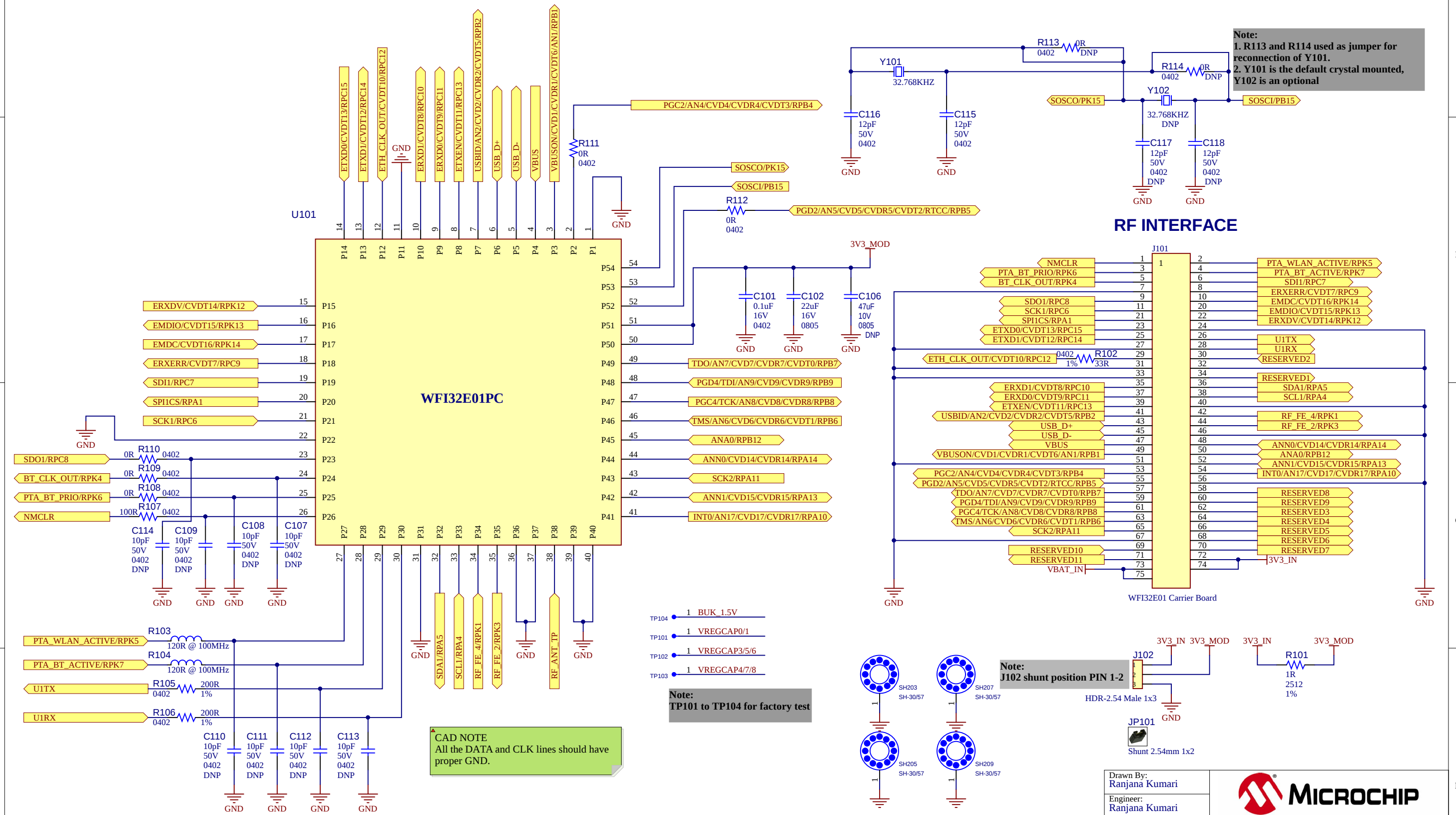


V2.0	Carrier Board for Module PCB V2.0	26-Mar-2018
V2.1	Carrier Board for Module PCB V2.1 (EA Build)	03-July-2018
V2.2	Carrier Board for Module PCB V2.3(Tx EVM update)	07-Mar-2019
V2.3	Carrier Board for Module PCB V2.4 (WITH SOS)	23-July-2019
V3.0	Part Properties updated with MCL	11-Jan-2020
V4.0	China RoHS Logo added, C102- P/N updation J101-Replaced with New Part Y1 Changed to Y101 & Y2 changed to Y102	14-Aug-2020

Note:
1. R113 and R114 used as jumper for reconection of Y101.
2. Y101 is the default crystal mounted, Y102 is an optional

RF INTERFACE



Choose the largest label that fits on your PCB.

LABEL1

02-

JIT

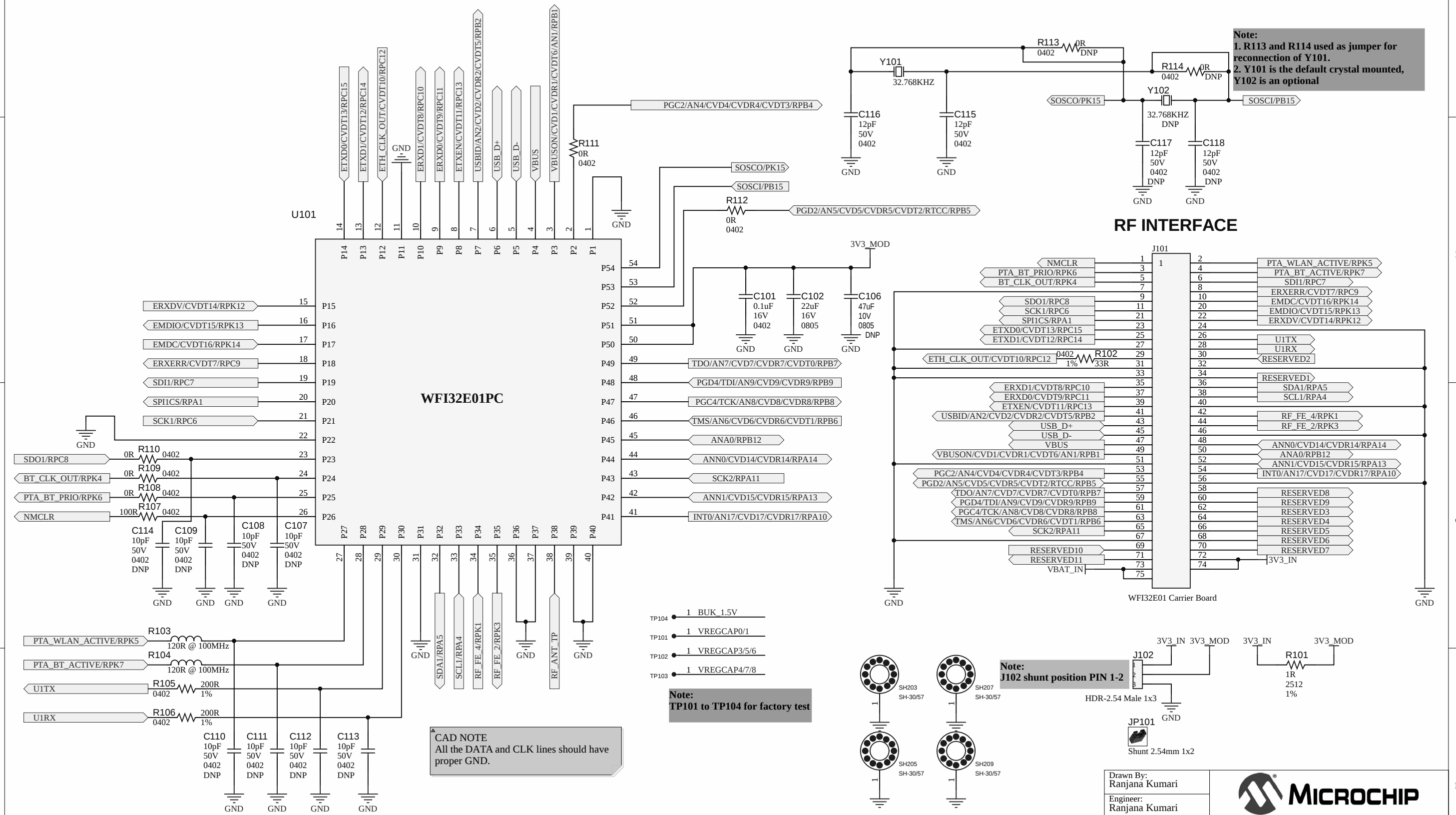
LABEL Need Help Small

Drawn By: Ranjana Kumari		 MICROCHIP	
Engineer: Ranjana Kumari			
PartNumber: EV12F11A	Project Title	Variant: [No Variations]	
WFI32E01_Carrier Board			
Sheet Title			
WFI32E01 Carrier Board			
Size A3	SCH #: 03-11133	Rev:4.0	Date: 8/17/2020
	PCB #: 04-11133	Rev:4.0	Sheet 1 of 1
File: 01_WFI32E01_CB_R4.0.SchDoc			
			Designed with  Altium.com

V2.0	Carrier Board for Module PCB V2.0	26-Mar-2018
V2.1	Carrier Board for Module PCB V2.1 (EA Build)	03-July-2018
V2.2	Carrier Board for Module PCB V2.3(Tx EVM update)	07-Mar-2019
V2.3	Carrier Board for Module PCB V2.4 (WITH SOS)	23-July-2019
V3.0	Part Properties updated with MCL	11-Jan-2020
V4.0	China RoHS Logo added, C102- P/N updation J101-Replaced with New Part Y1 Changed to Y101 & Y2 changed to Y102	14-Aug-2020

Note:
1. R113 and R114 used as jumper for reconnection of Y101.
2. Y101 is the default crystal mounted, Y102 is an optional

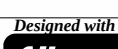
RF INTERFACE

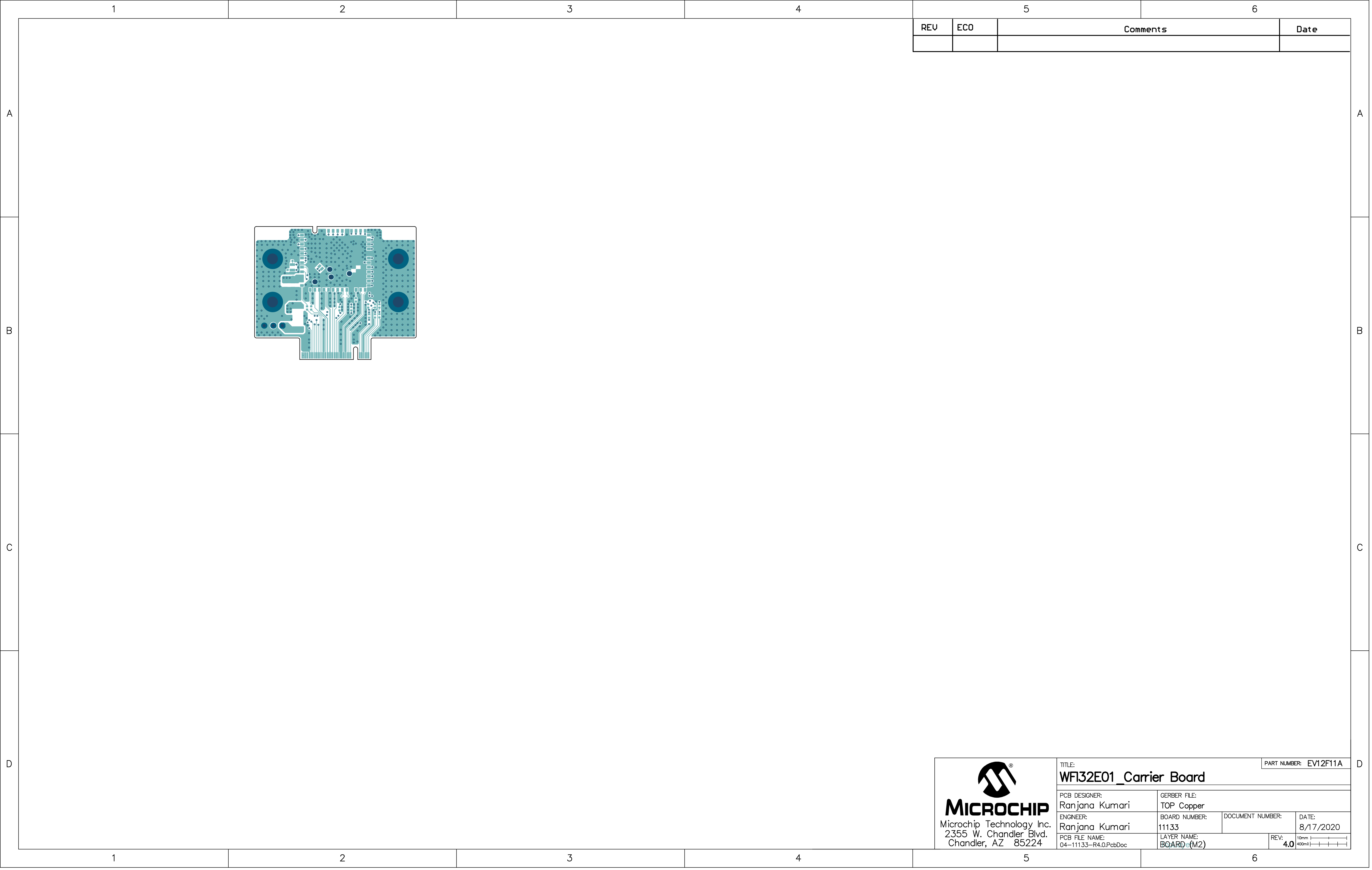


Choose the largest label that fits on your PCB.

LABEL1	02-	-R1
	JIT	

LABEL Need Help Small

Drawn By: Ranjana Kumari		 MICROCHIP			
Engineer: Ranjana Kumari					
PartNumber: EV12F11A		Project Title WFI32E01_Carrier Board		Variant: [No Variations]	
Sheet Title WFI32E01 Carrier Board					
Size A3	SCH #: 03-11133	Rev:4.0	Date: 8/17/2020		 Altium Altium.com
	PCB #: 04-11133	Rev:4.0	Sheet 1 of 1		
File: 01_WFI32E01_CB_R4.0.SchDoc					



REV	ECO	Comments	Date



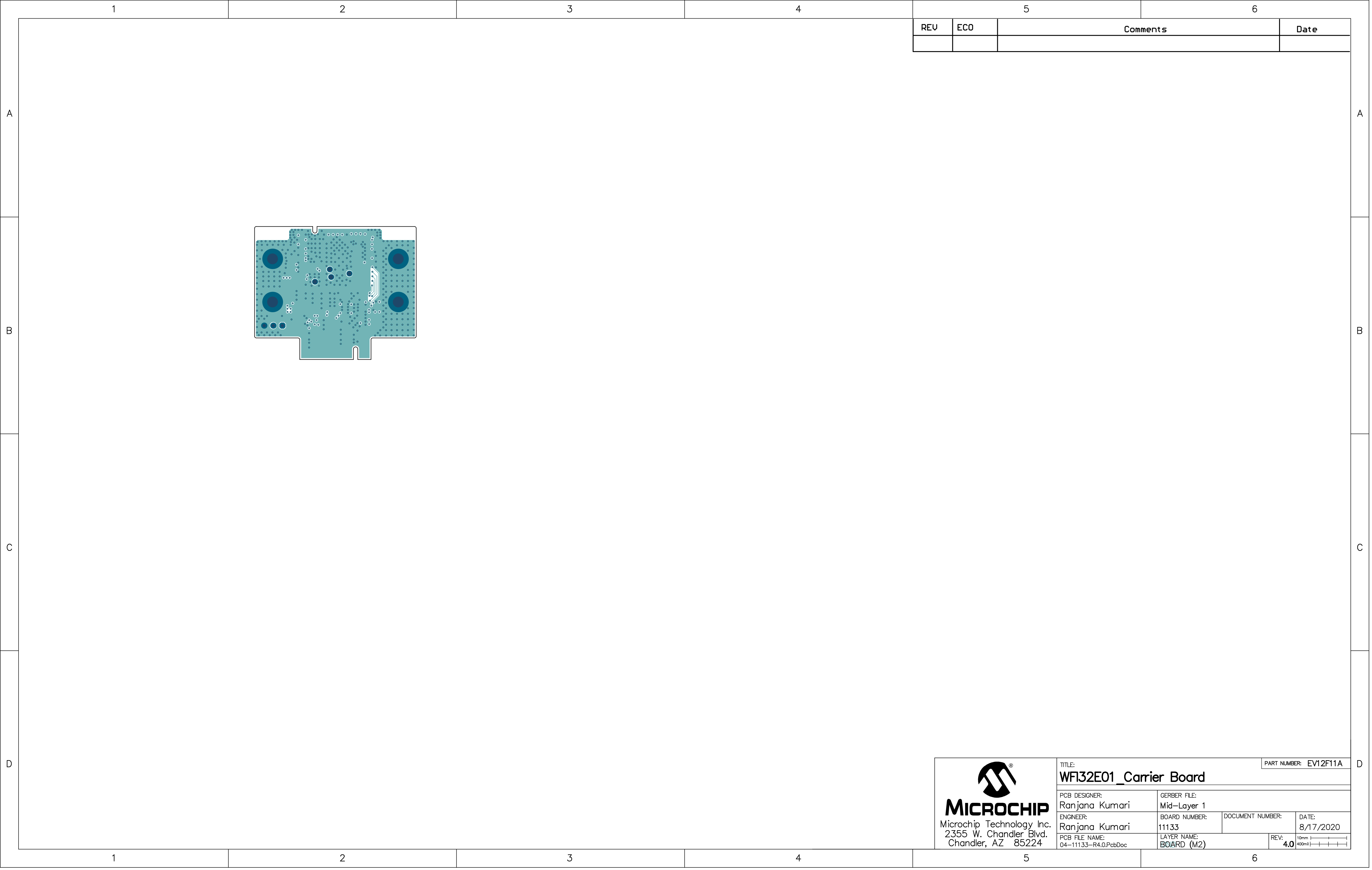
MICROCHIP
Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler, AZ 85224

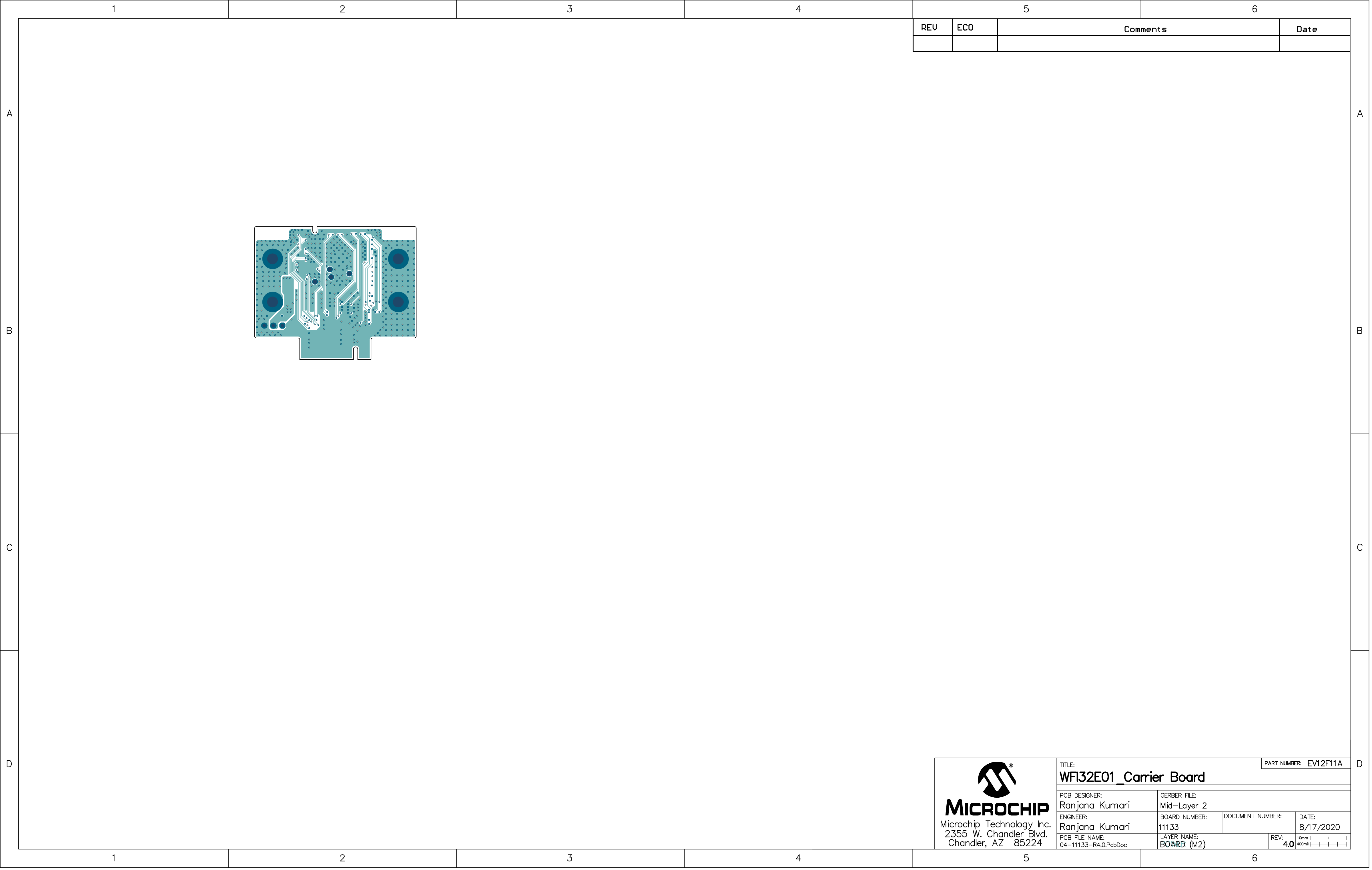
TITLE:

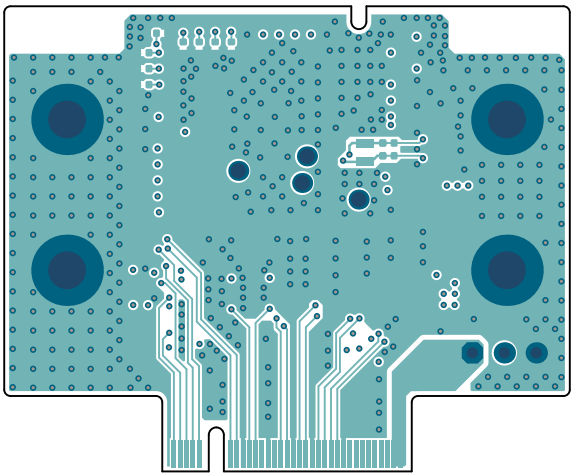
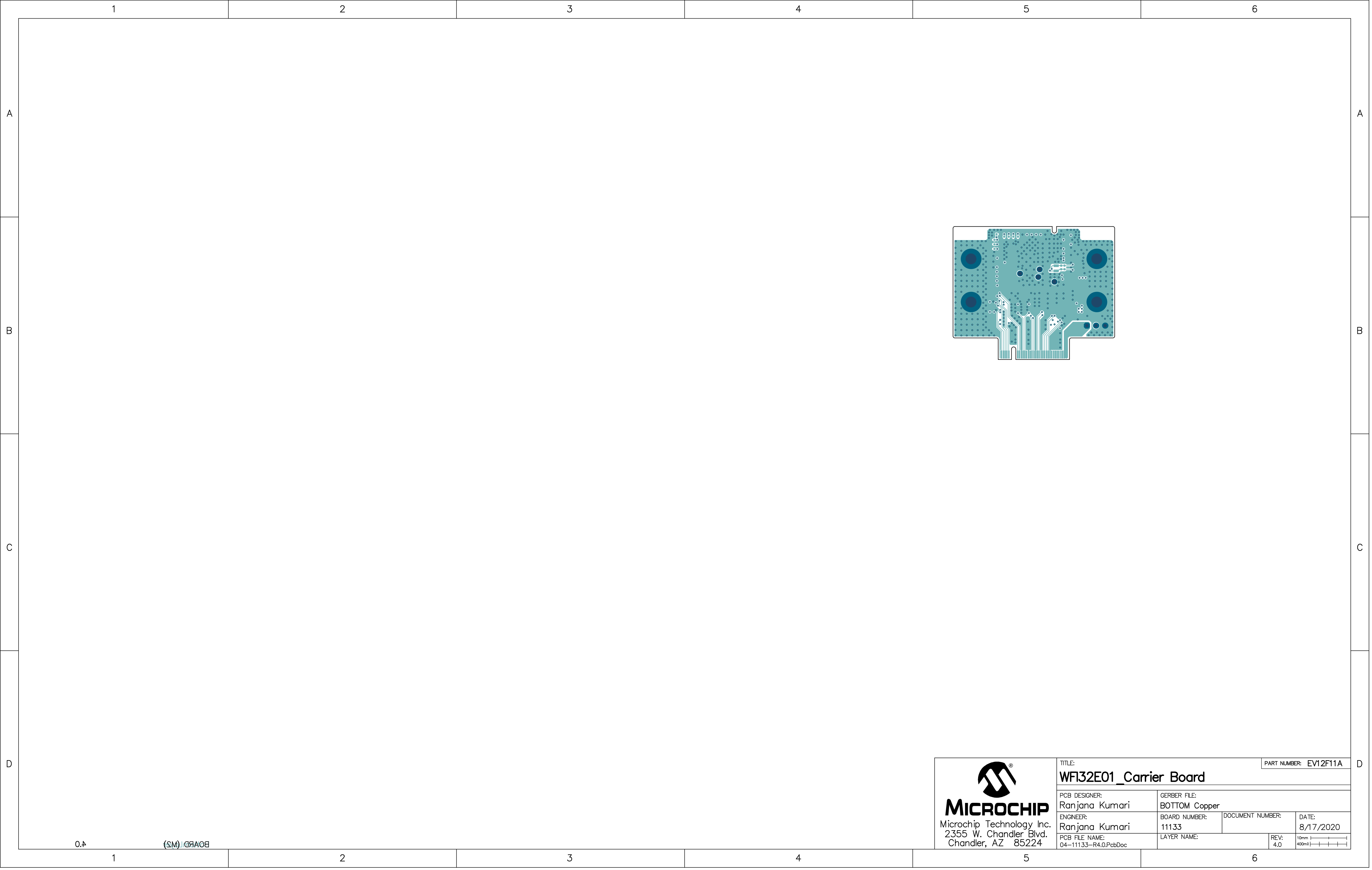
WF132E01_Carrier Board

PART NUMBER: EV12F11A

PCB DESIGNER: Ranjana Kumari	GERBER FILE: TOP Copper		
ENGINEER: Ranjana Kumari	BOARD NUMBER: 11133	DOCUMENT NUMBER:	DATE: 8/17/2020
PCB FILE NAME: 04-11133-R4.0.PcbDoc	LAYER NAME: BOARD(M2)	REV: 4.0	10mm 400mil



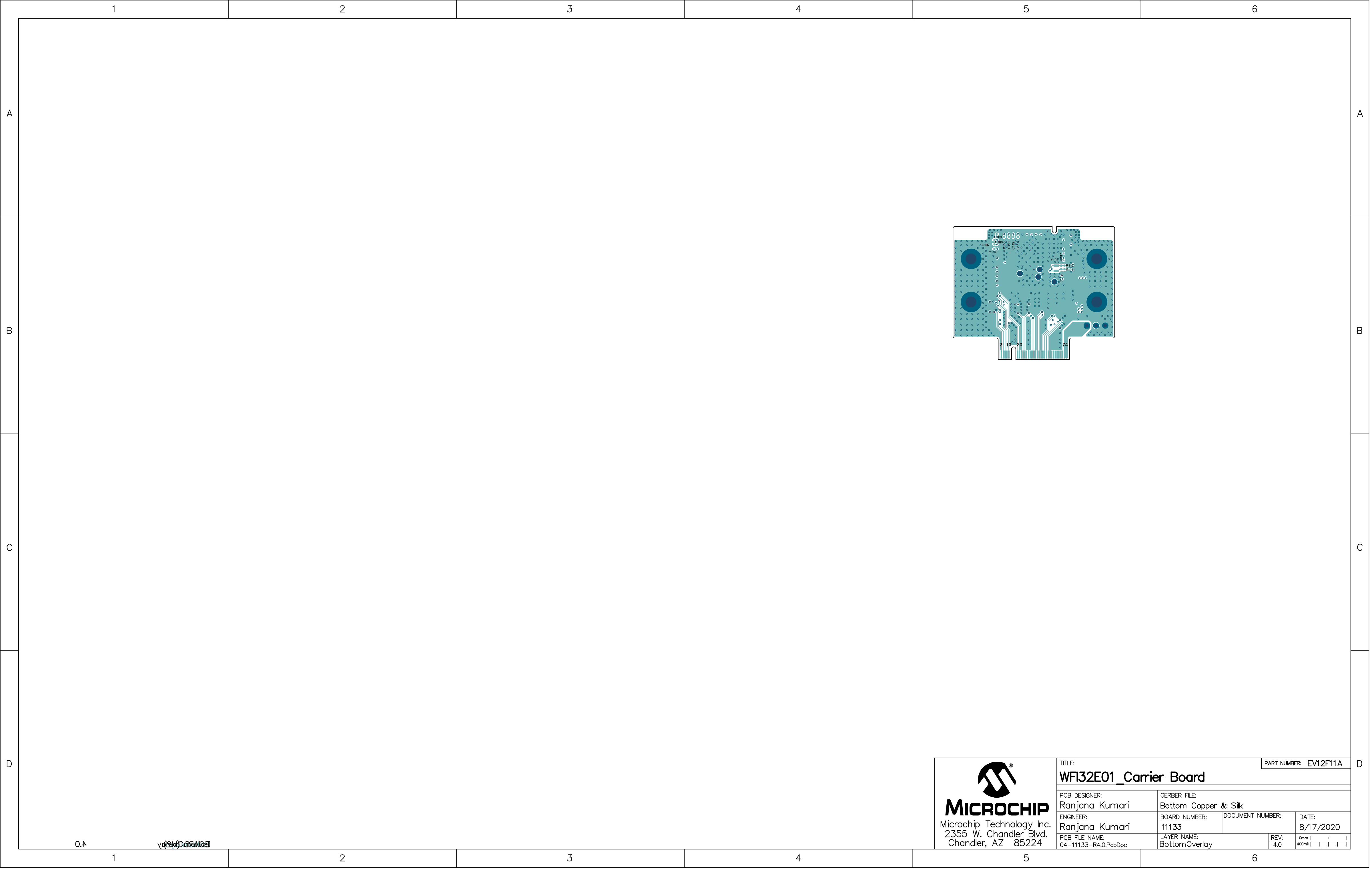






MICROCHIP
Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler, AZ 85224

TITLE: WFI32E01_Carrier Board		PART NUMBER: EV12F11A	
PCB DESIGNER: Ranjana Kumari		GERBER FILE: BOTTOM Copper	
ENGINEER: Ranjana Kumari		BOARD NUMBER: 11133	DOCUMENT NUMBER: DATE: 8/17/2020
PCB FILE NAME: 04-11133-R4.0.PcbDoc		LAYER NAME:	REV: 4.0
		10mm 400mil	



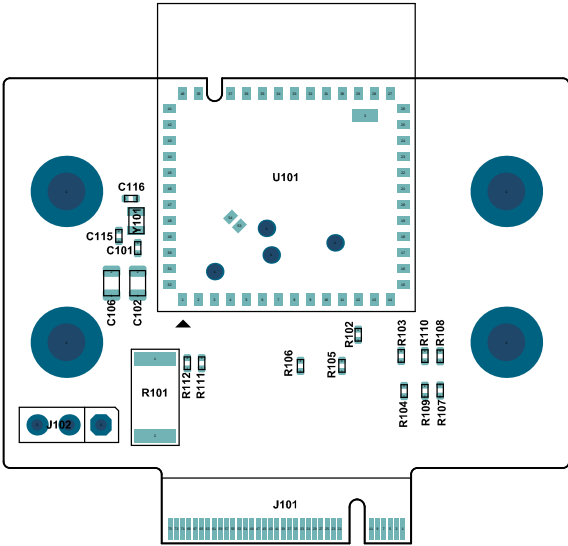


MICROCHIP
Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler, AZ 85224

TITLE:		PART NUMBER: EV12F11A	
WFI32E01_Carrier Board			
PCB DESIGNER: Ranjana Kumari		GERBER FILE: Bottom Copper & Silk	
ENGINEER: Ranjana Kumari		BOARD NUMBER: 11133	DOCUMENT NUMBER: DATE: 8/17/2020
PCB FILE NAME: 04-11133-R4.0.PcbDoc		LAYER NAME: BottomOverlay	REV: 4.0

10mm

400mil



ASSEMBLY NOTES:

1. ALL COMPONENTS SHALL BE RoHS COMPLIANT.
2. ALL UNUSED THROUGH HOLE COMPONENT LOCATIONS SHALL BE FREE OF SOLDER.
3. ALL COMPONENTS SHALL BE MOUNTED FLUSH TO THE BOARD, EXCEPT AS NOTED.
4. FINISHED BOARD SHALL BE FREE OF ALL RESIDUES.
5. ALL LEADS SHALL BE TRIMMED TO A MAXIMUM HEIGHT OF 2mm
6. PLACE LABEL ON THE LOCATION INDICATED.



MICROCHIP
Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler, AZ 85224

TITLE:

WF132E01 Carrier Board

PART NUMBER: EV12F11A

ASSEMBLY VARIANT: (No Variations)

PCB DESIGNER:
Ranjana Kumari

ENGINEER:
Ranjana Kumari

PCB FILE NAME:
04-11133-R4.0.PcbDoc

GERBER FILE:
Top Assembly Drawing

BOARD NUMBER:
11133

DOCUMENT NUMBER:
02-11133 -D

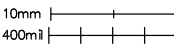
DATE:
8/17/2020

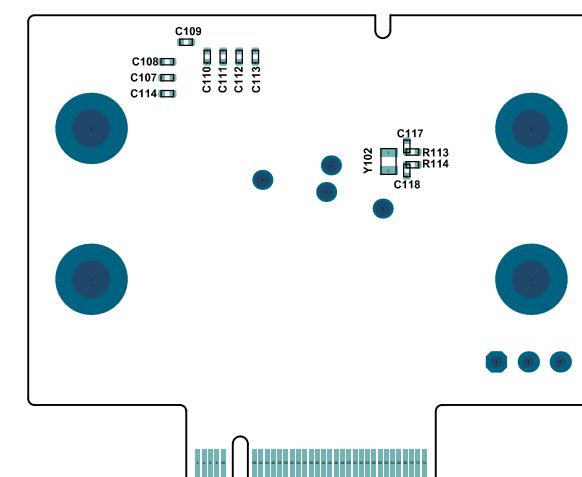
LAYER NAME:
Assy TOP (M11)

REV:
4.0

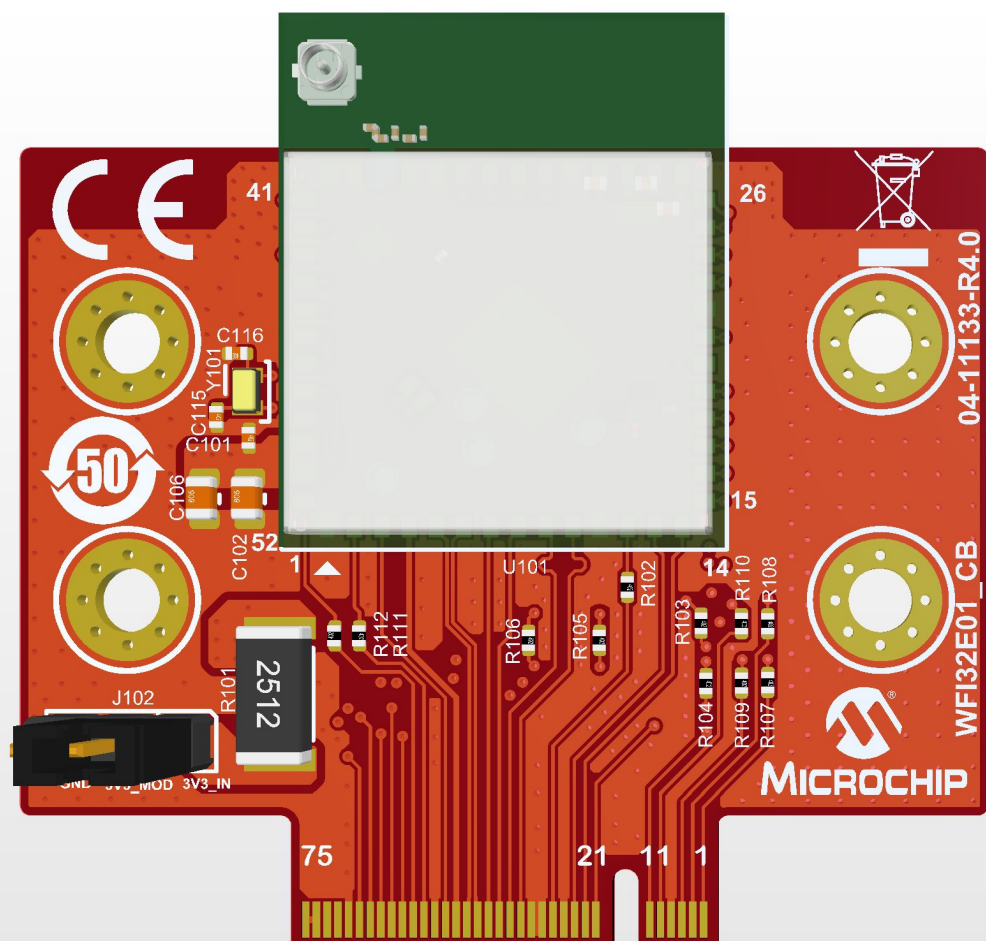
10mm

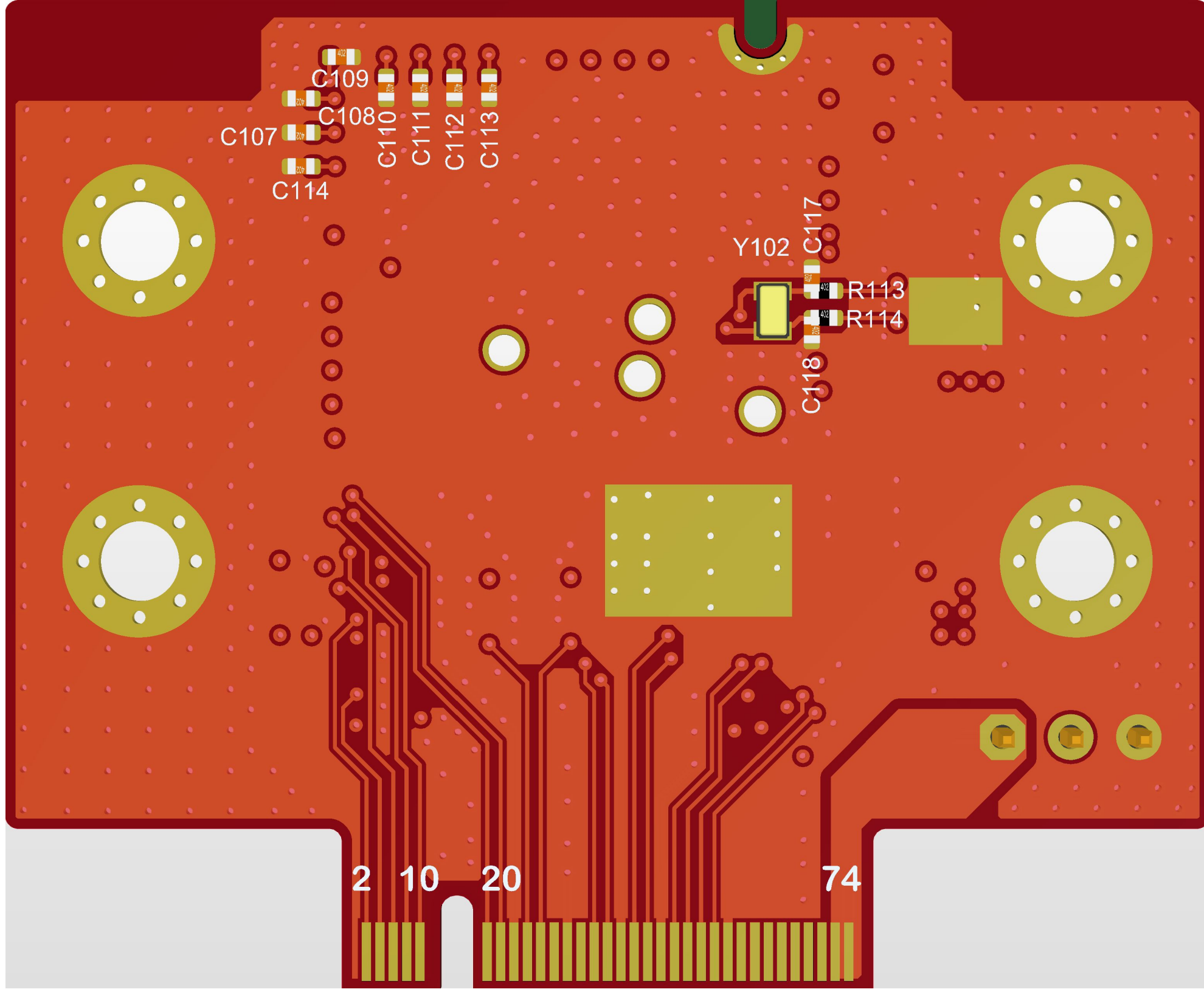
400mil





 MICROCHIP Microchip Technology Inc. 2355 W. Chandler Blvd. Chandler, AZ 85224	TITLE:		PART NUMBER: EV12F11A	
	WF32E01 Carrier Board			
	ASSEMBLY VARIANT: [No Variations]			
	PCB DESIGNER: Ranjana Kumari		GERBER FILE: Bottom Assembly Drawing	
ENGINEER: Ranjana Kumari		BOARD NUMBER: 11133	DOCUMENT NUMBER: 02-11133 -D	DATE: 8/17/2020
PCB FILE NAME: 04-11133-R4.0.PcbDoc		LAYER NAME: Assy BOT (M10)		REV: 4.0
				





Bill of Materials

WFI32E01_Carrier Board

Document Number: 02-11133

PCB Number: 04-11133

Part Number: EV12F11A

Revision: 4.0

Engineer: Ranjana Kumari

Drawn By: Ranjana Kumari

M

Creation Date: 8/17/2020

Creation Time: 4:36 PM

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Price / 1 Board
1	C101	CAP CER 0.1uF 16V 10% X7R SMD 0402	Murata	GRM155R71C104KA88D	Digi-Key	490-3261-2-ND		\$0.0000
1	C102	CAP CER 22uF 16V 10% X5R SMD 0805	TDK	C2012X5R1C226K125AC	Digi-Key	445-6797-2-ND		\$0.0000
2	C115, C116	CAP CER 12pF 50V 1% NP0 SMD 0402	Murata Electronics North	GRM1555C1H120FA01D	Digi-Key	490-6196-2-ND		\$0.0000
1	J102	CON HDR-2.54 Male 1x3 Gold 5.84MH TH VERT	FCI	68000-103HLF	Digi-Key	609-3461-ND		\$0.0000
1	R101	RES TKF 1R 1% 1W SMD 2512	Vishay Dale	CRCW25121R00FKEG	Digi-Key	541-1.00AAFCT-ND		\$0.0000
1	R102	RES TKF 33R 1% 1/16W SMD 0402	Rohm Semiconductor	MCR01MRTF33R0	Digi-Key	RHM33.0CDCT-ND		\$0.0000
2	R103, R104	FERRITE 120R @ 100MHz 0.55A 0.19R SMD 0402	Murata Electronics	BLM15AG121SN1D	Digi-Key	490-1005-2-ND		\$0.0000
2	R105, R106	RES TKF 200R 1% 1/10W SMD 0402	Panasonic	ERJ-2RKF2000X	Digi-Key	P200LTR-ND		\$0.0000
1	R107	RES TKF 100R 5% 1/16W SMD 0402	Yageo	RC0402JR-07100RL	Digi-Key	311-100JRCT-ND		\$0.0000
5	R108, R109, R110, R111, R112	RES TKF 0R 1/16W SMD 0402	Yageo	RC0402JR-070RL	Digi-Key	311-0.0JRCT-ND		\$0.0000
1	Y101	CRYSTAL 32.768KHZ 12.5PF SMD 2-SMD, No Lead	Epson	FC-12M 32.7680KA-A5	Digi-Key	SER4080CT-ND		\$0.0000

Microchip Parts listed below

1	U101	MOD WiFi WFI32E01PC	Microchip Technology	WFI32E01PC	Microchip Tech	WFI32E01PC		\$0.0000
								\$0.0000
								\$0.0000
								\$0.0000
								\$0.0000

Mechanical Parts to be added in the package

1	JP101	MECH HW JUMPER 2.54mm 1x2 GOLD	Wurth Electronics Inc.	60900213421	Digi-Key	732-2678-ND		\$0.0000
1	LABEL1	LABEL, ASSY W/REV LEVEL (SMALL MODULES) PER MTS-0002			Dev Tools			\$0.0000
								\$0.0000

PCB

1	PCB1	Printed Circuit Board		04-11133-R4.0				\$0.0000
								\$0.0000

Do Not Populate Parts listed below								
1	C106	CAP CER 47uF 10V 20% X5R SMD 0805	TDK Corporation	C2012X5R1A476M125AC	Digi-Key	445-8239-2-ND		\$0.0000
8	C107, C108, C109, C110, C111, C112, C113, C114	CAP CER 10pF 50V 5% NP0 SMD 0402	AVX Corporation	04025A100JAT2A	Digi-Key	478-1070-1-ND		\$0.0000
2	C117, C118	CAP CER 12pF 50V 1% NP0 SMD 0402	Murata Electronics North	GRM1555C1H120FA01D	Digi-Key	490-6196-2-ND		\$0.0000
2	R113, R114	RES TKF 0R 1/16W SMD 0402	Yageo	RC0402JR-070RL	Digi-Key	311-0.0JRCT-ND		\$0.0000
1	Y102	CRYSTAL 32.768KHZ 12.5PF SMD 2-SMD, No Lead	Epson	FC-12M 32.7680KA-A5	Digi-Key	SER4080CT-ND		\$0.0000
								\$0.0000

Approved	Notes	Description