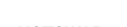
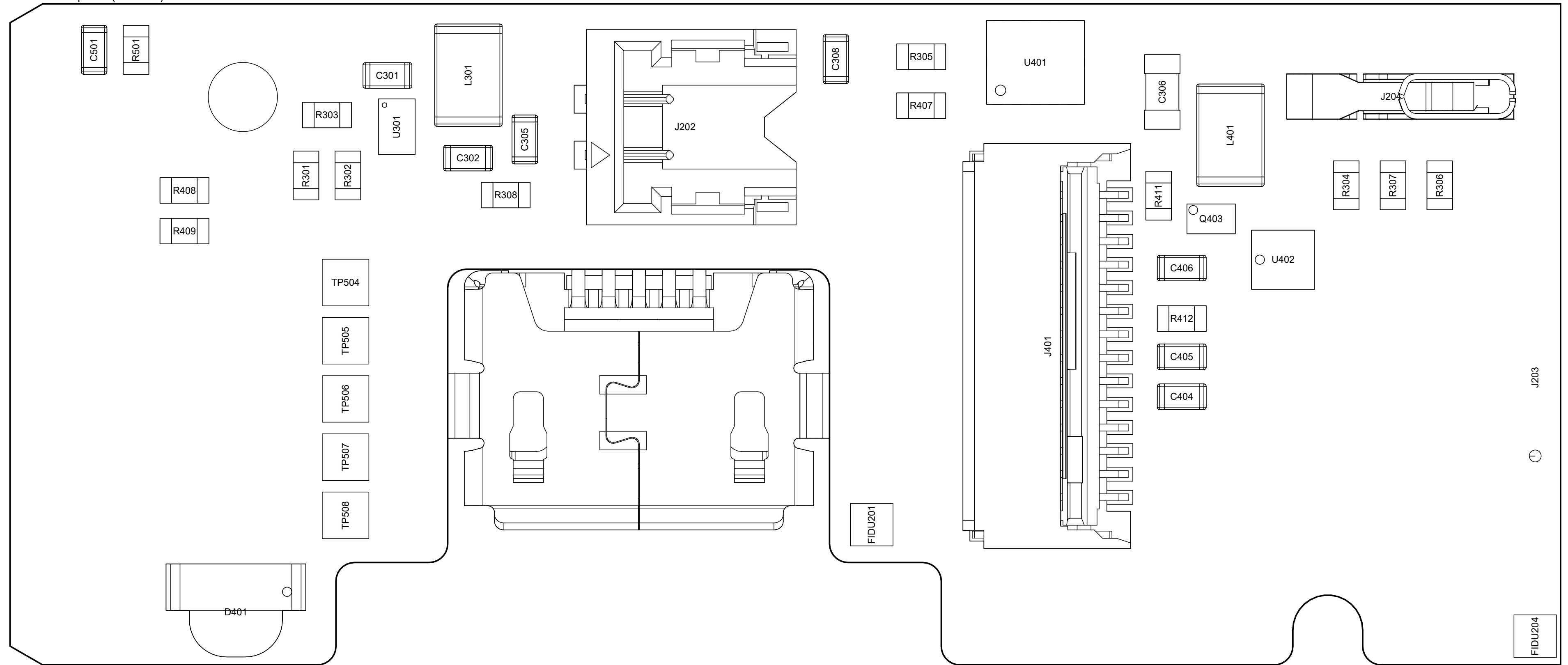



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES:		CUSTOMER/PROJECT: Innovation Zed		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION:	
						BOARD: EFM 1			
	NAME	SIGNATURE		DATE	TITLE: Drawings for 105358-3BA001-01				
DRAW	KaKa			26-09-2017					
CHK'D									
APPV'D									
MFG									
QA				MATERIAL/FINISH: ENIG	DWG NO. 105358-3CD001-01		A2		
				WEIGHT:	SCALE 1:1		SHEET 1 OF 6		

Top Assembly Drawing

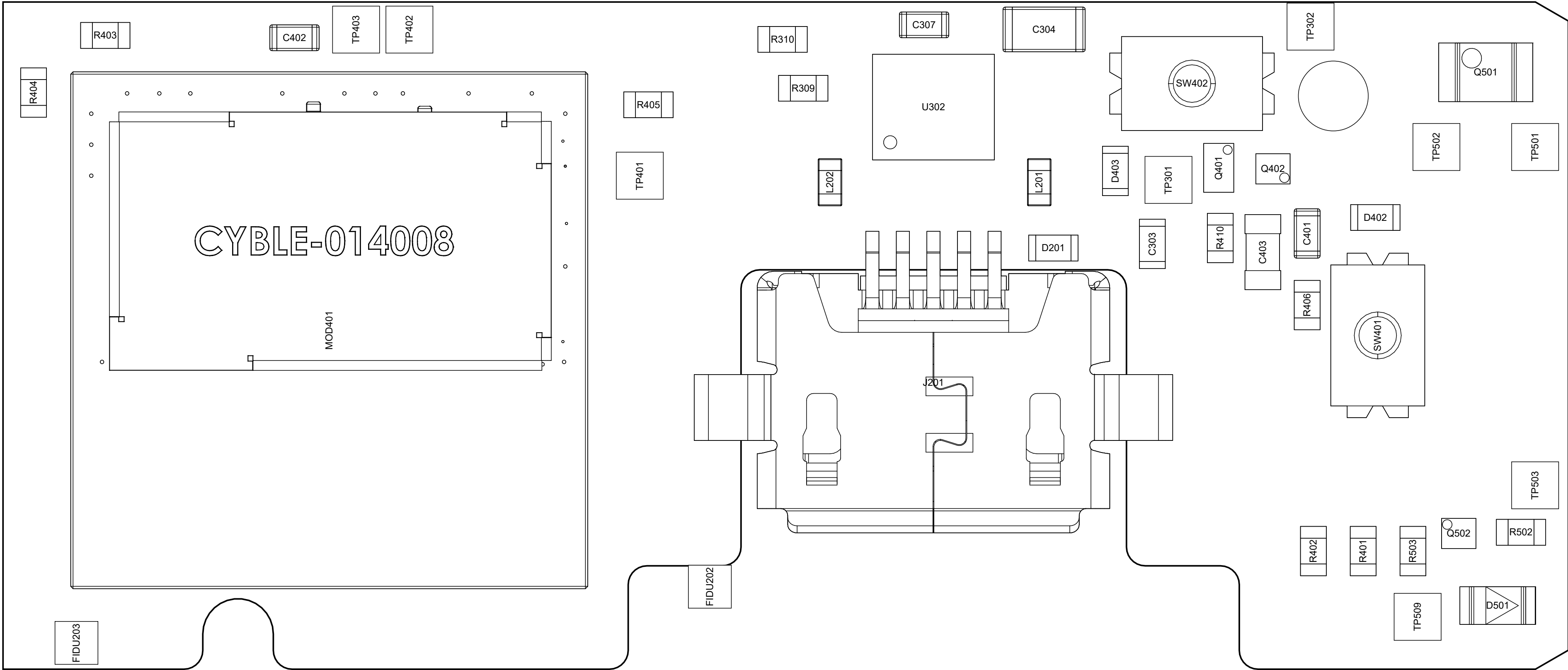
View from Top side (Scale 15)



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES:		CUSTOMER/PROJECT: Innovation Zed		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION:	
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				ENIG					
				WEIGHT:		SCALE 1:1			SHEET 2 OF 6

Bottom Assembly Drawing

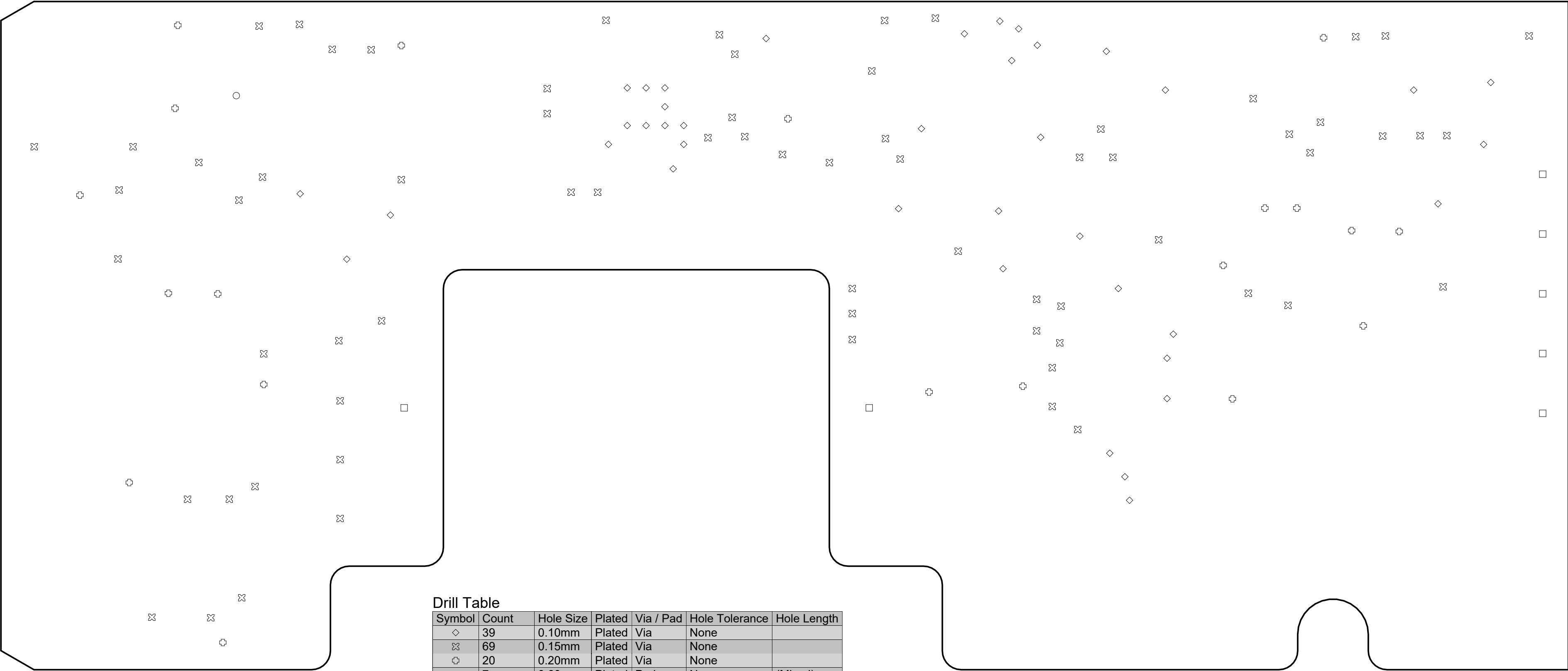
View from Bottom side (Scale 15)



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES:			CUSTOMER/PROJECT: Innovation Zed		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION:
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DRAW	KaKa			26-09-2017			
CHKD							
APPVD							
MFG							
QA					MATERIAL/FINISH: ENIG	DWG NO. 105358-3CD001-01	A2
					WEIGHT:	SCALE 1:1	SHEET 3 OF 6


Drill Drawing View

Drill Drawing View (Scale 15)



Drill Table


Symbol	Count	Hole Size	Plated	Via / Pad	Hole Tolerance	Hole Length
◇	39	0.10mm	Plated	Via	None	
⊠	69	0.15mm	Plated	Via	None	
⊞	20	0.20mm	Plated	Via	None	
□	7	0.60mm	Plated	Pad	None	(Mixed)
○	1	1.50mm	Plated	Pad	None	
	136 Total					

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						BOARD: EFM 1			
	NAME	SIGNATURE		DATE	TITLE: Drawings for 105358-3BA001-01				
DRAW	KaKa			26-09-2017					
CHK'D									
APPV'D									
MFG									
QA				MATERIAL/FINISH: ENIG	DWG NO. 105358-3CD001-01			A2	
				WEIGHT:	SCALE 1:1		SHEET 4 OF 6		

Layer Stack Legend

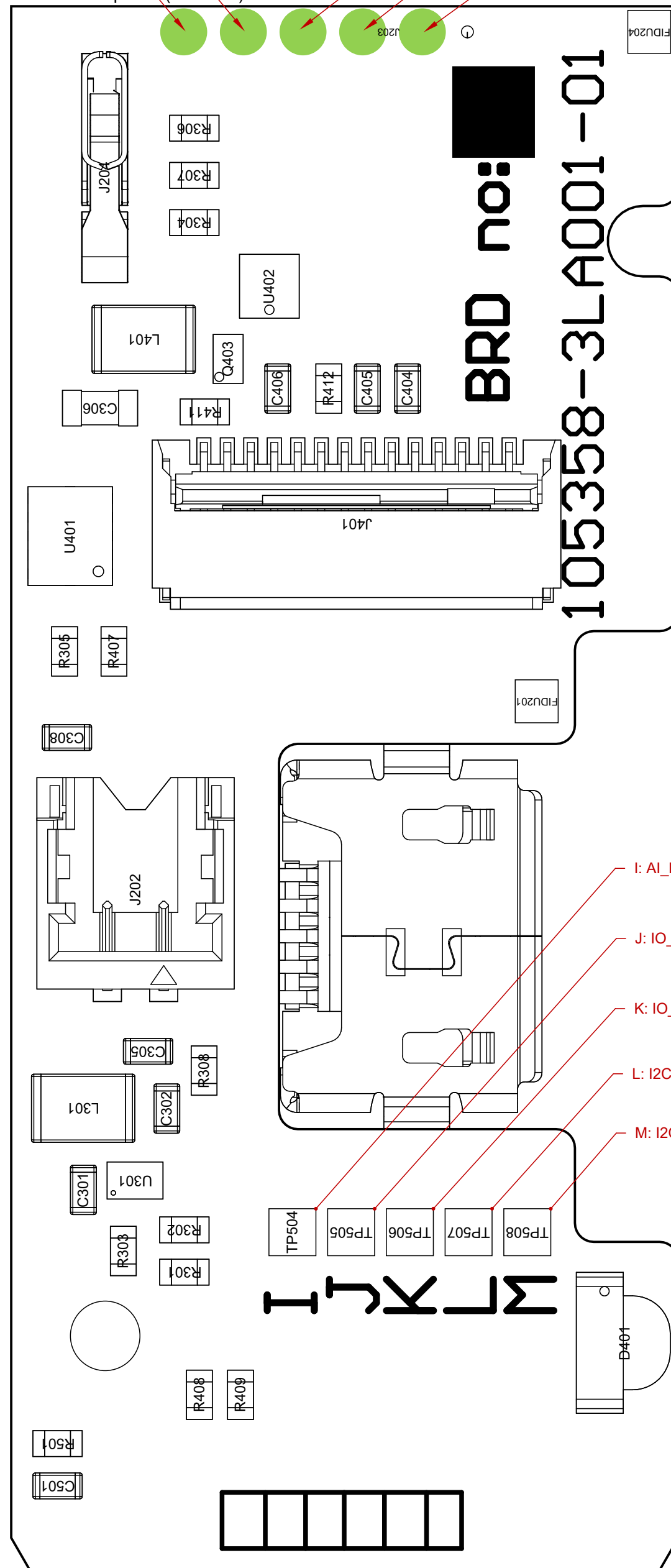
Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Paste			Paste Mask	GTP
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.018mm(1mil)	Solder Resist	Solder Mask	GTS
Copper	Component Side	0.036mm(1mil)		Signal	GTL
Prepreg		0.064mm(2mil)	FR-4	Dielectric	
Copper	Inner Layer 1	0.036mm(1mil)		Signal	G1
Prepreg		0.064mm(2mil)	FR-4	Dielectric	
Copper	Ground Plane (GND)	0.036mm(1mil)		Internal Plane	GP1
Core		0.508mm(20mil)	FR-4	Dielectric	
Copper	Power Plane (VCC)	0.036mm(1mil)		Internal Plane	GP2
Prepreg		0.064mm(2mil)	FR-4	Dielectric	
Copper	Inner Layer 2	0.036mm(1mil)		Signal	G2
Prepreg		0.064mm(2mil)	FR-4	Dielectric	
Copper	Solder Side	0.036mm(1mil)		Signal	GBL
Surface Material	Bottom Solder	0.018mm(1mil)	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
	Bottom Paste			Paste Mask	GBP
Total thickness: 1.011mm(40mil)					

Solder Mask Color – Black
Surface treatment- Electroless Nickel Immersion Gold (ENIG)
OverLay Text Color- White

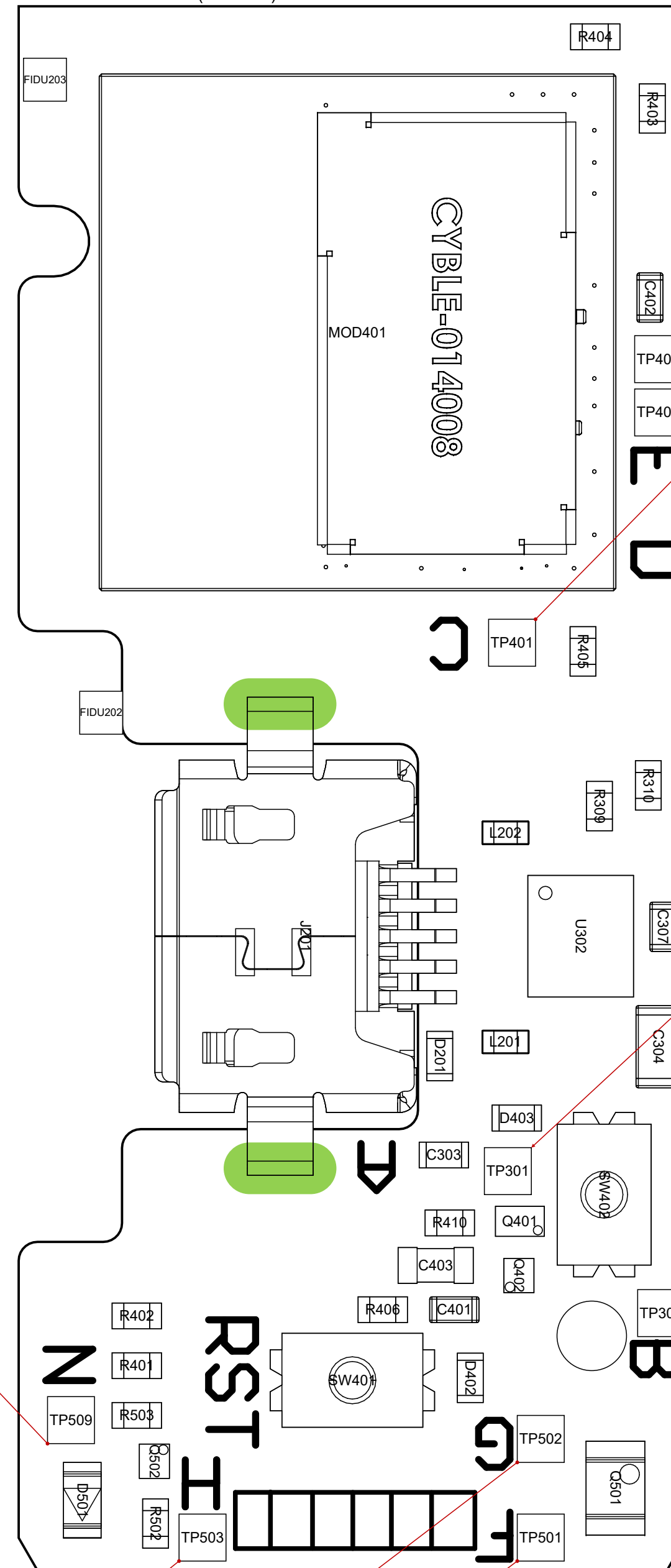
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		NAME	SIGNATURE	DATE	TITLE: Drawings for 105358-3BA001-01	
		DRAW	KaKa	26-09-2017		
		CHKD				
		APPVD				
		MFG				
		QA			MATERIAL/FINISH: ENIG	DWG NO. 105358-3CD001-01
					WEIGHT:	A2
					SCALE 1:1	SHEET 5 OF 6

Test Points

~~View from Top side (Scale 10)~~



View from Bottom side (Scale 10)



✓ E: P2.1

✓ D: P2.2

✓ C : Vref

✓ A: 9V


✓ B: VCC_SYS

N: 3V

H: IR LED K

G: AIN_IR_RECEIVER

F: DOUT_IR_REC_VCC

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES:				CUSTOMER/PROJECT: Innovation Zed		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION:	
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DRAW	KaKa				26-09-2017						
CHK'D											
APP'VD											
MFG											
QA											
				MATERIAL/FINISH:		DWG NO. 105358-3CD001-01					
				ENIG							
				WEIGHT:		SCALE 1:1				SHEET 6 OF 6	