

Digit 360 Data USB

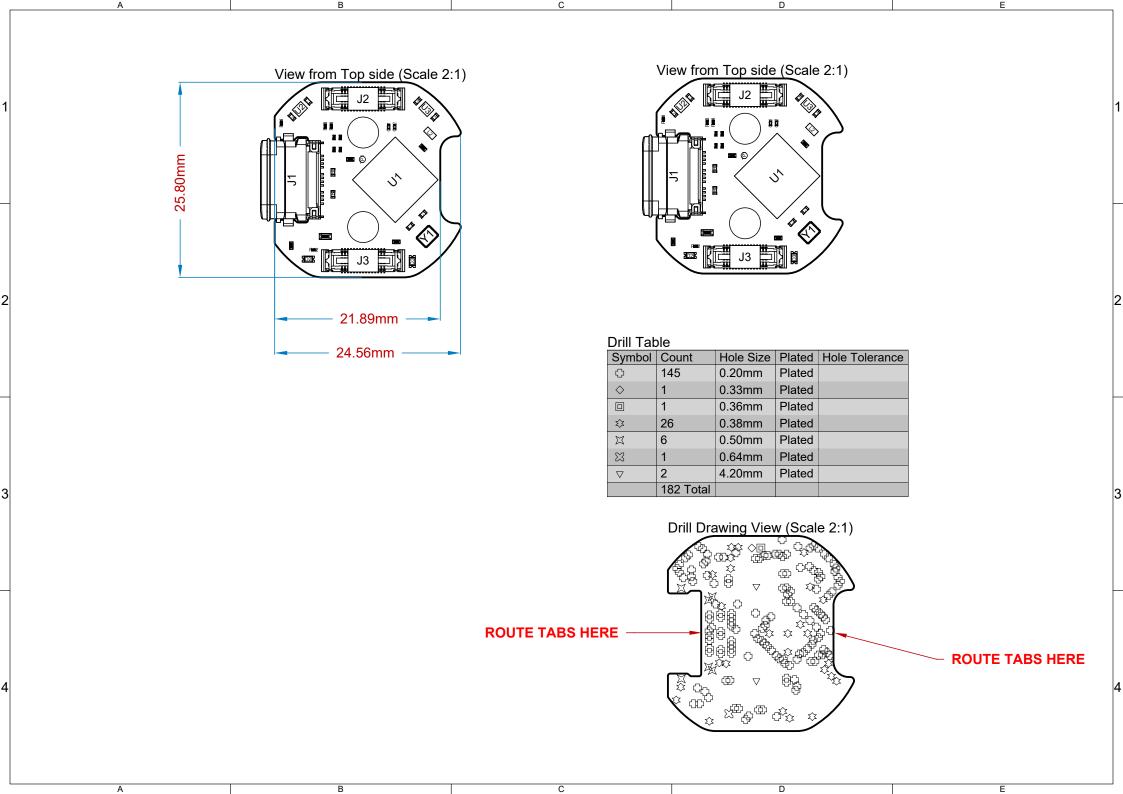
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Realistic View Realistic View R20==

A	B C D E
	NOTES: UNITS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
	1. INTERPRET THIS DRAWING IN ACCORDANCE WITH IPC-D-325A
	2. BOARD FABRICATION AND QUALITY PER IPC-6012, CLASS 2, EXCEPT SPECIFIED HEREIN
	3. MUST COMPLY WITH EUROPEAN DIRECTIVE 2002/95/EC (RoHS)
	4. DIMENSIONAL LIMITS APPLY AFTER PLATING OR COATING
	5. BOW AND TWIST MAXIMUM IS 0.75%
	6. MATERIAL: LAMINATE AND PREPREG SHALL BE IN ACCORDANCE WITH IPC-4101/21. 170 DEGREES CELSIUS MINIMUM Tg, UL 94V-0
	<ul> <li>7. STACKUP SUMMARY:         <ul> <li>A. NUMBER OF COPPER LAYERS: 8</li> <li>B. BOARD THICKNESS SHALL BE 62mil +/- 10%</li> <li>C. COPPER: See Layer Stack</li> <li>D. DEFAULT TRACE/SPACE: 4mil / 4mil</li> <li>E. CONDUCTOR WIDTH TOLERANCE = +/- 0.01mm</li> </ul> </li> </ul>
	<ul> <li>8. VIPPO (VIA IN PAD PLATED OVER) PER IPC-6012, CURRENT REVISION, CLASS 2, AS     STATED IN NOTE 2.         <ul> <li>a. FILL AND CAP All 0.2mm VIA HOLES WITH NON-CONDUCTIVE EPOXY</li> <li>b. FILL AND CAP VIAS MUST BE PLANARIZED</li> </ul> </li> </ul>
	9. SURFACE FINISH/PLATING: A. BOARD SHALL BE IMMERSION GOLD PLATED (ENIG) ACCORDING TO IPC-4552. THICKNESS SHALL BE A MINIMUM OF 0.05µm GOLD OVER 3-6µm NICKEL
3	10. SOLDERMASK WITH LIQUID PHOTO IMAGEABLE (LPI) PER IPC-SM-840C, CLASS T. COLOR: MATTE BLACK
	11. SILKSCREEN PER SUPPLIED ARTWORK WITH ORGANIC, NON-CONDUCTIVE, EPOXY INK. SILKSCREEN MAY BE TRIMMED OFF ANY SOLDERABLE ENTITY. COLOR: WHITE
	12. 100% BARE BOARD ELECTRICAL TEST TO BE DONE WITH REFERENCE TO SUPPLIED NETLIST
	13. LOCATE MANUFACTURER'S IDENTIFICATION AND LOT CODE ON PRIMARY SIDE FREE FROM ALL METAL ENTITY RENDERED IN SILKSCREEN.
	14. DIFFERENTIAL CONTROLLED IMPEDANCE REQUIRED ON BOARD. SEE TABLE : DIFFERENTIAL CONTROLLED IMPEDANCE SEE TABLE : SINGLE ENDED CONTROLLED IMPEDANCE
	15. DETAILS NOT SPECIFIED ARE AT MANUFACTURER'S OPTION BUT FINAL APPROVAL MUST BE OBTAINED
A	B C D E

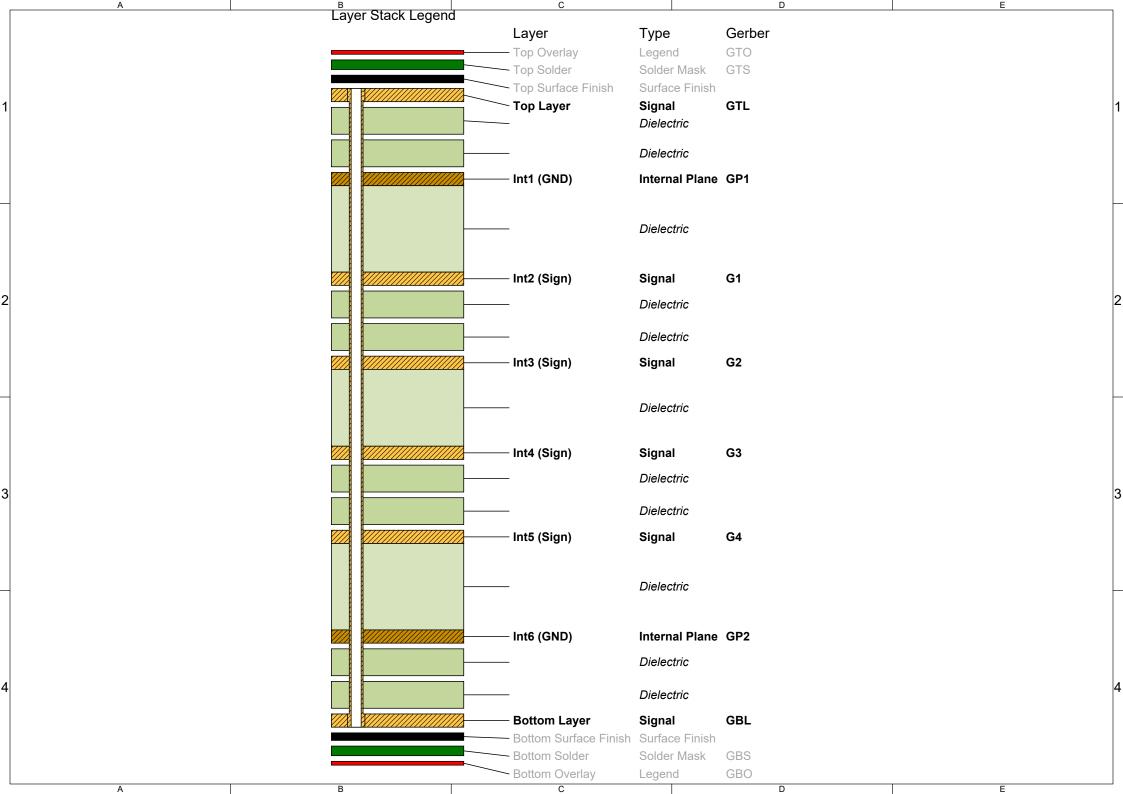


## Stack-Up (or similar)

<b>Layer</b> Silkscreen	Base CU / Plt	Thick 0.00	Type	Stackup	Subs	Imp	Material Taiyo-SS - White	Dk	Df
Soldermask		0.60					Taiyo-SM - Green	2.70	0.033
Lyr1	0.5oz / Std	1.80	S	n			raiyo-olw - Olcon	2.10	0.000
Prepreg	0.0027 0.0	7.64					370HR - 2x2113	3.99	0.022
Lyr2	1oz	1.20	Р						
Core		8.00					370HR - 8.0mils	4.61	0.021
Lyr3	1oz	1.20	S						
Prepreg		6.68					370HR - 2x2113	3.99	0.022
Lyr4	1oz	1.20	Р						
Core		8.00					370HR - 8.0mils	4.61	0.021
Lyr5	1oz	1.20	Р						
Prepreg		6.68					370HR - 2x2113	3.99	0.022
Lyr6	1oz	1.20	S						
Core		8.00					370HR - 8.0mils	4.61	0.021
Lyr7	1oz	1.20	Р						
Prepreg		7.64					370HR - 2x2113	3.99	0.022
Lyr8	0.5oz / Std	1.80	S	-					
Soldermask		0.60					Taiyo-SM - Green	2.70	0.033
Silkscreen		0.00					Taiyo-SS - White		

## **Required Thickness**

Туре	Req. Thick	Tol% +	Tol% -	Act. Thick	Measured
Overall	62.0	10.0	10.0	64.6	
Over lamination	58.4	10.0	10.0	61.0	
Over laminate	57.2	10.0	10.0	59.8	
Over metal	60.8	10.0	10.0	63.4	



Transmission Line Structure Table Target Impedance Calculated Impedance Trace layer Wide Trace Width Narrow Trace Width Gap Reference layers Clearance Target Tolerance 90 90.08 8.00mil 8.00mil 7.00mil Int1 (GND) 5.00mil 7% Top Layer 90 8.00mil Int1 (GND),Int3 (Sign) 5.00mil 7% 89.52 Int2 (Sign) 5.00mil 5.00mil 90 88.34 5.00mil 8.00mil Int2 (Sign),Int4 (Sign) 0.00mil 7% Int3 (Sign) 5.00mil 90 88.34 Int4 (Sign) 5.00mil 8.00mil Int3 (Sign),Int5 (Sign) 0.00mil 7% 5.00mil 90 89.52 Int5 (Sign) 5.00mil 5.00mil 8.00mil Int4 (Sign),Int6 (GND) 5.00mil 7% 90 7.00mil Int6 (GND) 90.08 Bottom Layer 8.00mil 8.00mil 5.00mil 7% Acceptable minimum: 10% target tolerance