

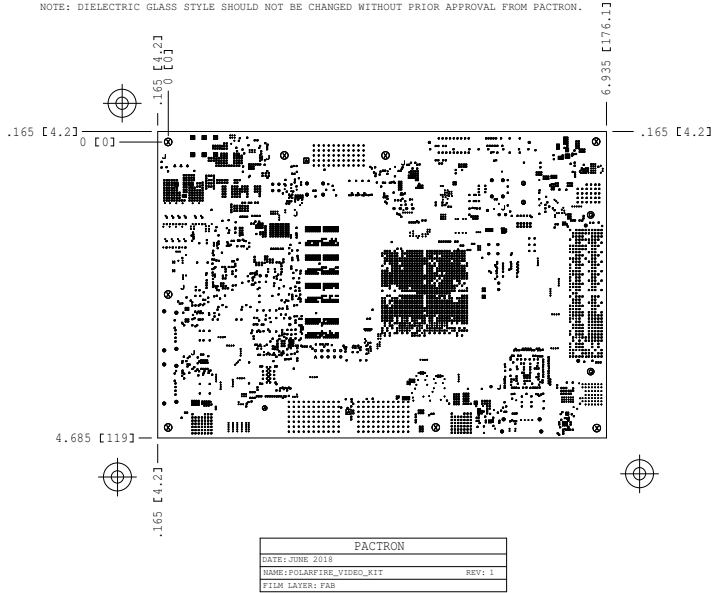
DRILL CHART: TOP TO BOTTOM				
ALL UNITS ARE IN MILLS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
*	8.0	+3.0/-3.0	PLATED	1757
*	8.0	+3.0/-3.0	PLATED	2016
*	8.01	DRILL WITH 10MIL DRILL JAW	PLATED	60
*	10.0	+3.0/-3.0	PLATED	378
*	10.0	+3.0/-3.0	PLATED	36
*	10.0	+3.0/-3.0	PLATED	4
*	10.0	+3.0/-3.0	PLATED	4
*	10.01	DRILL WITH 10MIL DRILL JAW	PLATED	32
*	23.62	+0.0/-2.0	PLATED	209
*	28.0	+0.0/-2.0	PLATED	10
*	40.0	+3.0/-3.0	PLATED	1
J	40.0	+3.0/-3.0	PLATED	8
*	40.0	+3.0/-3.0	PLATED	9
*	40.0	+3.0/-3.0	PLATED	4
*	40.0	+3.0/-3.0	PLATED	18
*	40.0	+3.0/-3.0	PLATED	3
*	45.0	+3.0/-3.0	PLATED	8
*	51.18	+4.0/-2.0	PLATED	12
■	65.0	+4.0/-0.0	PLATED	6
●	110.24	+3.0/-3.0	PLATED	2
*	35.5	+2.0/-0.0	NON-PLATED	2
*	40.16	+2.0/-0.0	NON-PLATED	2
*	50.0	+2.0/-0.0	NON-PLATED	2
*	66.0	+2.0/-0.0	NON-PLATED	2
■	78.74	+2.0/-0.0	NON-PLATED	2
●	125.0	+2.0/-2.0	NON-PLATED	8
●	165.35	+2.0/-2.0	NON-PLATED	1
■	63.0x39.37	+3.0/-3.0	PLATED	2
■	63.0x39.37	+3.0/-3.0	PLATED	1

CONTROLLED IMPEDANCE REQUIRED

STACKUP - 14 LAYERS

[illegible]

TOTAL BOARD THICKNESS: 63 mil +/- 6 mil
NOTE: DIELECTRIC GLASS STYLE SHOULD NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM FACTRON.



1. MATERIAL: M4000-1351 AND FR4.
2. GENERAL PLATING - ENIG
3. ALL HOLES ARE PLATED THRU UNLESS OTHERWISE SPECIFIED
4. MINIMUM PLATING FOR ALL THRU HOLE SHOULD BE 0.001" Cu
5. THROUGH HOLES PLATING THICKNESS SHOULD BE CONTROLLED BETWEEN 1.0 TO 1.5 MILS PER SIDE.
6. SILKSCREEN BOTH SIDES WITH NON-CONDUCTIVE WHITE INK
7. FABRICATE PER DIMENSIONS SHOWN.
8. SOLDER MASK TOP AND BOTTOM SIDES WITH LIQUID PHOTO IMAGEABLE OR DRY FILM
9. SOLDER MASK. COLOR MATTE BLACK.
10. TOTAL BOARD THICKNESS: 63 mil +/- 6 mil
11. 14 LAYER CONSTRUCTION. REFER STACKUP
12. THIRIVING IS OPTIONAL. IF ADDED IT NEED TO BE KEPT AWAY FROM ANY CONDUCTORS BY 300 MIL AFTER APPROVAL FROM PACTRON.
13. THIS IS A ROHS COMPLIANT BOARD
14. BOARD MUST BE UL 94V-1 APPROVED.
15. FABRICATE BOARD PER IPC-A-600 STANDARD.
16. CLIP SILKSCREEN ON NO MASK AREA
17. IMPEDANCE TOLERANCE SHOULD BE +/- 5% ON L1, L14, REST OF THE LAYERS CAN HAVE 10% TOLERANCE
18. NO VENDOR LOGO, ART WORKS SHOULD NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM PACTRON
19. DEBURR ALL SHARP EDGES
20. REMOVE UNUSED PADS ON ALL INNER LAYERS.
21. BOARD DIMENSIONS ARE IN INCHES(MM)
22. WARP & TWIST: SHALL NOT EXCEED 0.005 INCHES PER INCH
23. NEED RECTANGE SLOT AS MENTIONED DIMENSION IN THE DRILL TABLE.
24. PROVIDE SORT COPY OF TDR REPORT FOR OUTER LAYERS.
25. ALL THE TRACE WIDTH MENTIONED IN IMPEDANCE TABLE ARE FINISHED TRACE WIDTH THERE SHOULD NOT BE ANY DEVIATIONS IN TRACE WIDTH AFTER MANUFACTURING
26. NICKEL CONTENT ON OUTER LAYERS SHOULD BE VERY MINIMAL. POSSIBLE
27. TO ACHIEVE THE MINIMUM THICKNESS IN OUTER LAYER METAL WITH MORE COPPER INSTEAD OF MORE NICKEL
28. TEARDROPS SHOULD NOT BE ADDED ON ANY AREA WITHOUT PRIOR APPROVAL FROM PACTRON.
29. IF REQUIRED CAN IGNORE THE TRACES THAT ARE <0.5 INCH FOR TDR MEASUREMENT, BUT SETUP NEED BE DONE TO MEET REQUIREMENT
30. ALL 8 MIL, 8.0 MIL 10 MIL AND 10.0 MIL DRILLS NEED NON CONDUCTIVE VIA PLUGGING.
31. AFTER PLUGGING THESE VIAS SHOULD BE FLAT AND SMOOTH ON BOTH TOP AND BOTTOM SIDES.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
1	INITIAL RELEASE	JUN 2018	

PACTRON

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PROJECT NAME	POLARFIRE_VIDEO_KIT	REV :1
PART NUMBER	DVP-101-000512-001	
DATE	JUNE 2018	
ORIGINATOR		
PACTRON PART NUMBER	305-PD-18-0267	