6.299 +.000 / -.012
.100 +.000 / -.012
note 9.
note 7.
9.187 +.000 / -.012
note 7.
.100 +.000 / -.012
note 9.

Top – Comp.Side

0.095 +/- 0.008

Layer Order

1. Signal_1, Top
2. Ground
3. Signal_2
4. Power
5. Signal_3
6. Power
7. Signal_10
8. Power
9. Power
10. Signal_11
11. Power
12. Signal_7
13. Ground
14. Signal_8
15. Ground
16. Signal_6, Bottom

Board Characteristics – 16 LAYER BOARD

1. Material: Nelco N4000-13EPSI
2. Minimum trace width: 0.006" and clearence: 0.005" on Signal_1,6 (Top and Bottom);
3. Minimum trace width and clearence: 0.005" on Signal_2,3,4,5,7,8,9,10,11,12 (all stripline);
4. 1 oz copper for all power layers and for Signal_1,2 (Top and Bottom)
   1/2 oz copper for Stripline trace layers (Signal_2,3,4,5,7,10,11,12).

5. Electroless Nickel Immersion Gold plating, with min. Ni: 2.5-5 um; Au: 0.05-0.2 um.
   Apply Solder Mask over bare copper.
6. Board Thickness: 0.093 +/- 0.008
7. Mill the Top and Bottom of board on the solder side to a thickness of 0.063" +/- 0.008
8. Silkscreen on Component and Solder Sides.
9. 45 degree chamfer.
10. FHS tolerances: +/- 0.003 unless specified otherwise.
11. Interlayer spacing as specified.
12. Zc=55 Ohm, Zd=100 Ohm for all 0.005" stripline and all 0.006" microstrip traces.
    Perform TDR test for all signal layers.
    Present TDR test results for all signal layers.

13. Via Fill and Overplate:
    Vias of this diameter must be completely filled with Peters PP-2795 or equivalent,
    planarized, and plated over with Copper and surface finish.
    The plated cap must adhere to fill material after 1x 550F solder shock.

14. Remove all non-functional inner layer pads for pins and vias.

15. Do not increas size of thermal pads and associated spoke connections on 0.041" and 0.0413" holes.

BOARD's DRILL SCHEDULE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Tolerance	COMMENT
○	.009	1124	YES	---	
⊞	.0091	1651	YES	---	Note 13
⌀	.011811024	22	YES	---	
⊟	.02	2	YES	---	
⊖	.033464567	2	YES	---	
⊡	.035	40	YES	---	
⊕	.037401575	18	YES	---	
□	.041	562	YES	---	
	.041338583	20	YES	---	
	.042	20	YES	---	
	.057	2	YES	---	
	.059	6	YES	---	
	.061023622	4	YES	---	
	.066	22	YES	---	
	.067	24	YES	---	
	.07	4	YES	---	
	.091	13	YES	---	
	.106	6	NO	---	
	.12598425	2	NO	---	
	.12795276	7	YES	---	
	.15	4	NO	---	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS   DECIMALS   ANGLES
              .XX
              .XXX
DO NOT SCALE DRAWING

CONTRACT NO.

TREATMENT
FINISH
SIMILAR TO   ACT.WT   CALC WT

APPROVALS	DATE
DRAWN M.Bogdan	9/30/2015
CHECKED M.Bogdan	9/30/2015
ISSUED	

UNIVERSITY OF CHICAGO
ELECTRONICS DEVELOPMENT GROUP

TITLE
Annie's Central Card
Specification Drawing

SIZE B   FSCM NO.   DWG.NO. 2857   REV. A
SCALE 1/2   SHEET