

REV. A	SHEET 1 OF 2	DOCUMENT NO. 21-033837-351
REVISIONS M		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	---

21-033837-351

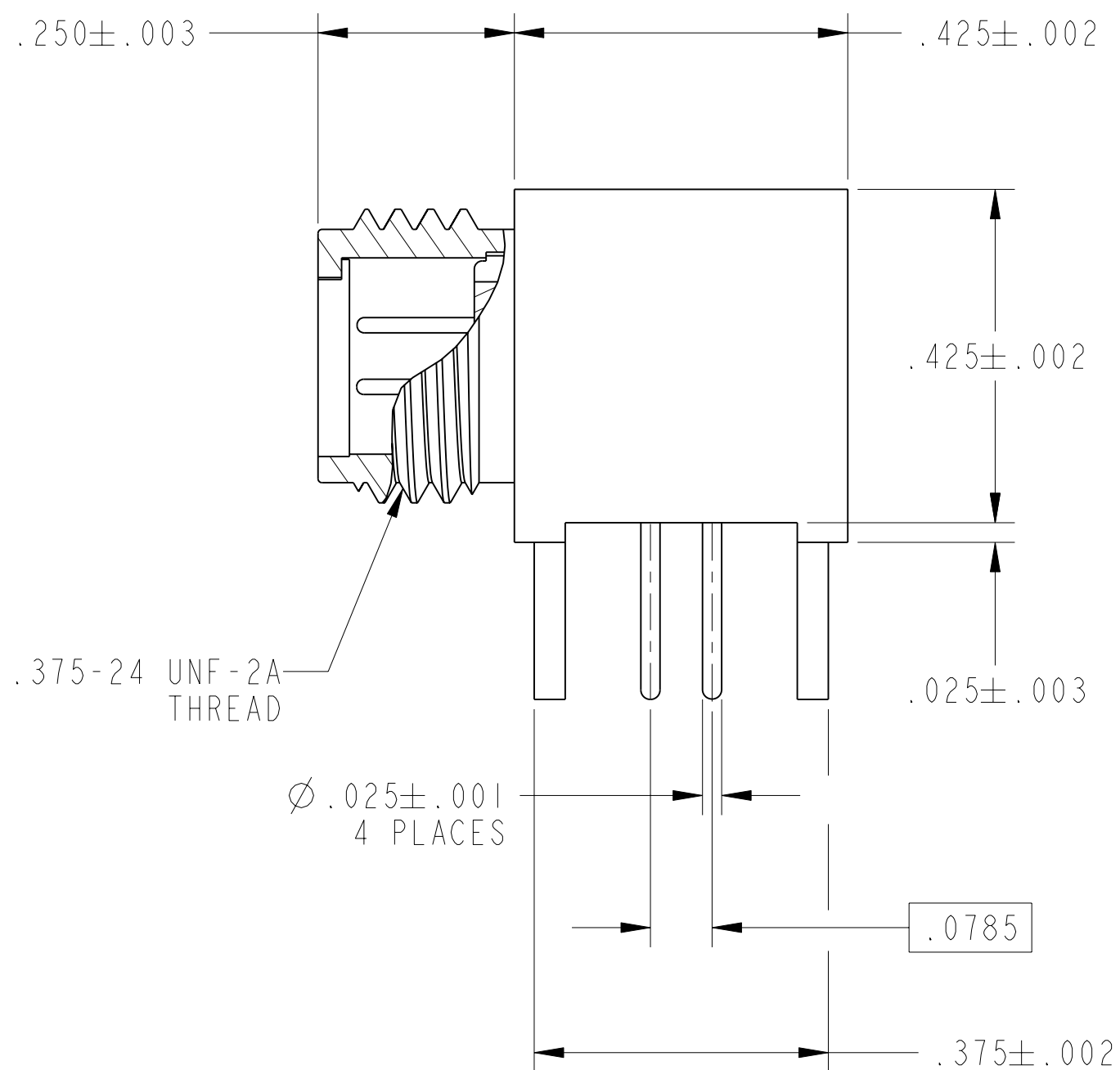
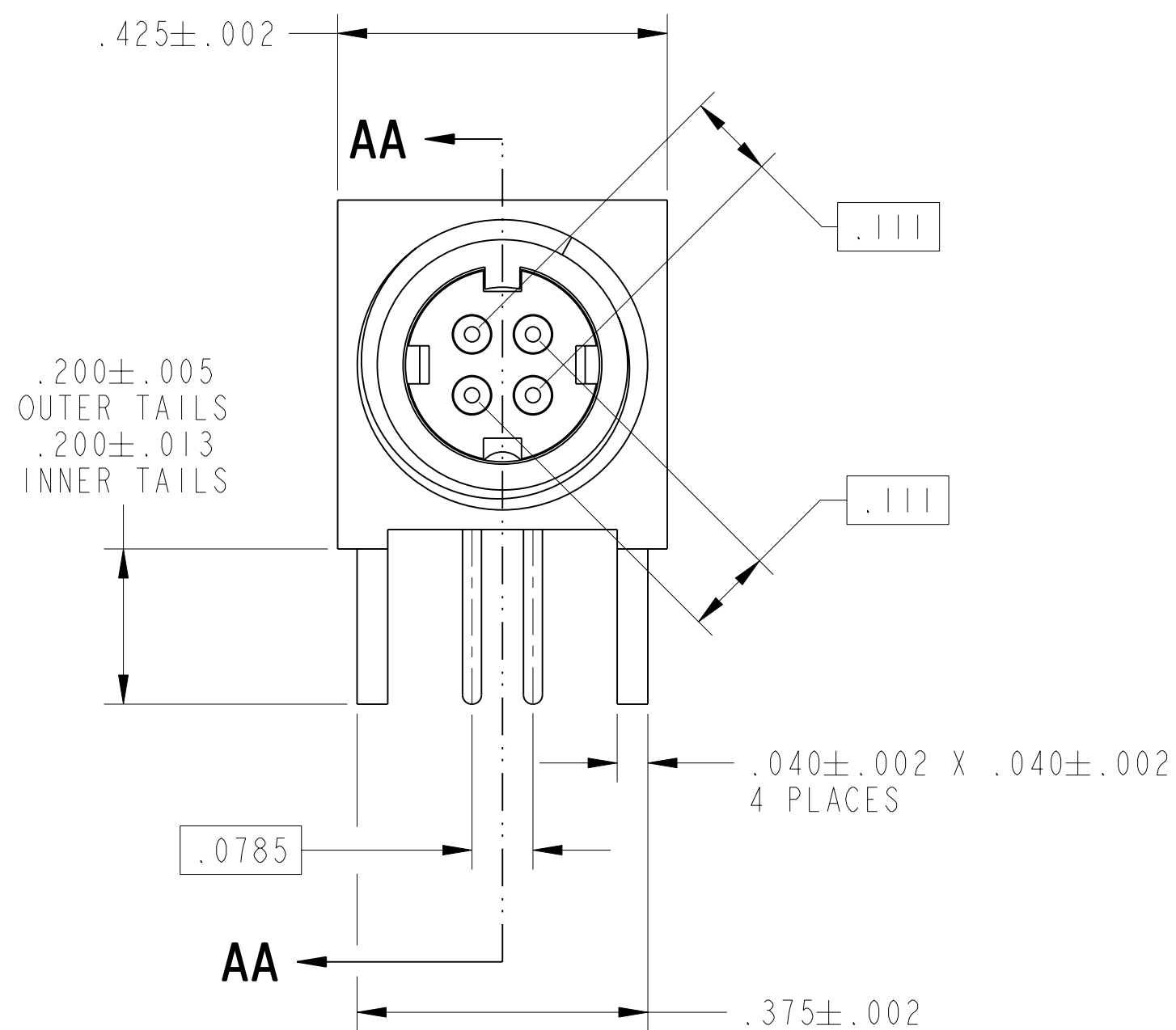
SHEET 1 OF 2

REV. A

C

B

A



PARTIAL SECTION AA-AA

SEE SHEET 2

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED. HOWEVER, DOCUMENTS REFERENCED HEREON MAY CONTAIN LIMITED RIGHTS DATA.

RELEASED / Aug. 11 2014, 4:15:32 PM

DOCUMENT NO. 21-033837-351

SHEET 1 OF 2

REV. A

N/A

NEXT ASSEMBLY

PRO/ENGINEER INFORMATION

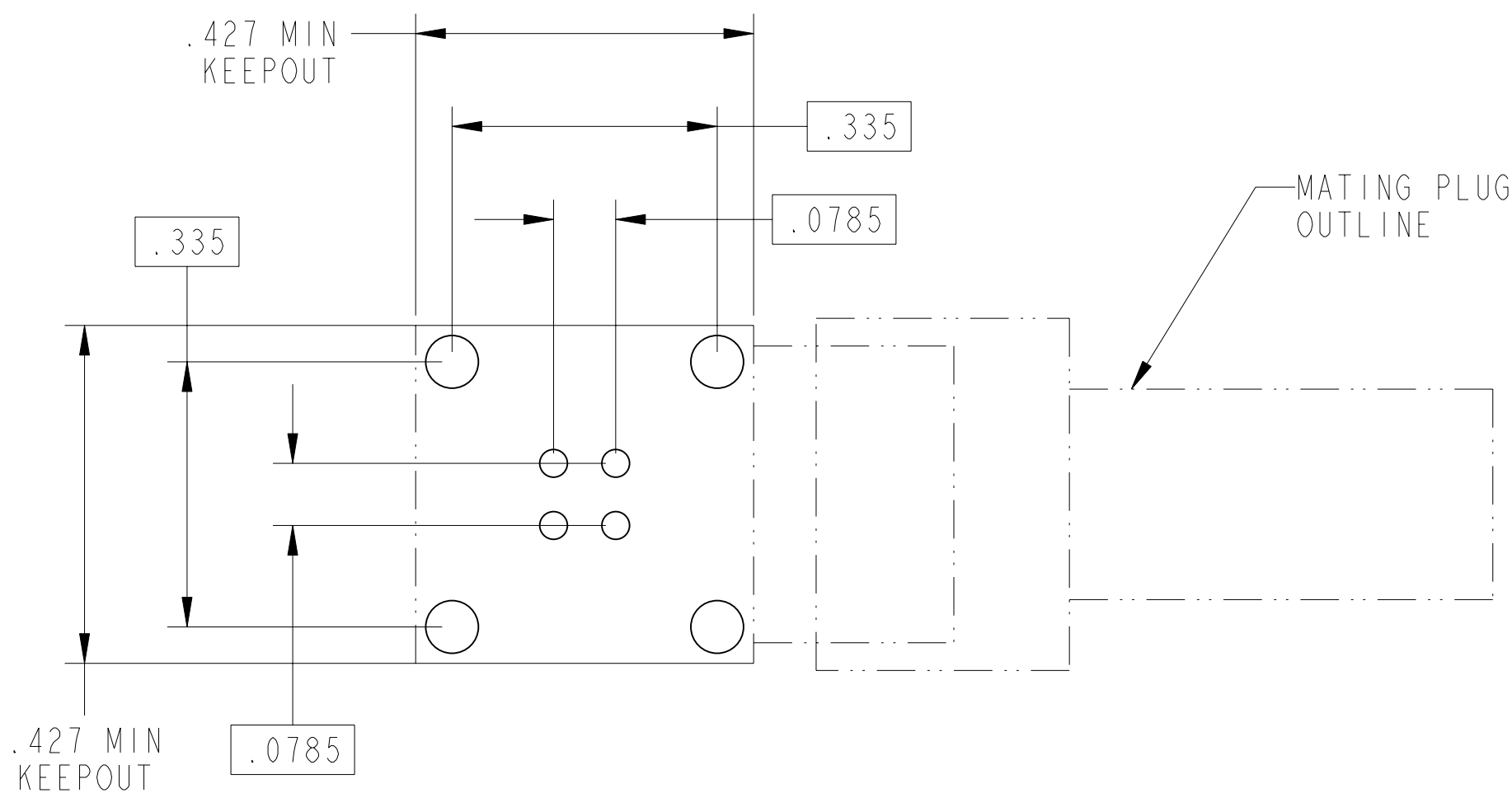
Pro/e Model Used: 21-033837-351.ASSEM Drawing Name: 21-033837-351

UNLESS OTHERWISE SPECIFIED	SPECIFICATIONS	POS	QTY	PART NUMBER	DESCRIPTION	NOTE
LINEAR DIMENSIONS ARE IN INCHES TOLERANCES: .XXXX = ±.0005 ANGLES= ±2° .XXX = ±.010 .XX = ±.03 .X = ±.1 DIM. & TOL. PER ASME Y14.5M; DRM PER MIL-DTL-31000; OTHER Amphenol Stds. PER 9-3800 LEGENDS: =FLAG NOTE CALL OUT REFERENCE ONLY	MATERIAL SPEC.	PARTS LIST				
	N/A	AMPHENOL CORPORATION 40-60 DELAWARE AVENUE SIDNEY, N.Y. 13858 CONTACT, RECEPTACLE, 90°, PCB, DIFFERENTIAL QUADRAX, TYPE: HIGH SPEED, TO BOARD				
PROCESS SPEC.	N/A	APPROVALS PREPARED BY D. PHILLIPS ENGINEER IN CHARGE D. PHILLIPS DESIGN MANAGER E. HICKEY DESIGN ACTIVITY GROUP C-1 DATE 24-Jun-14 THIRD ANGLE PROJECTION		SIZE C CAGE CODE 77820 DOCUMENT NO. 21-033837-351 REV. A		
				SCALE: 5.0 REF. 21-033837-201 SHEET 1 OF 2		

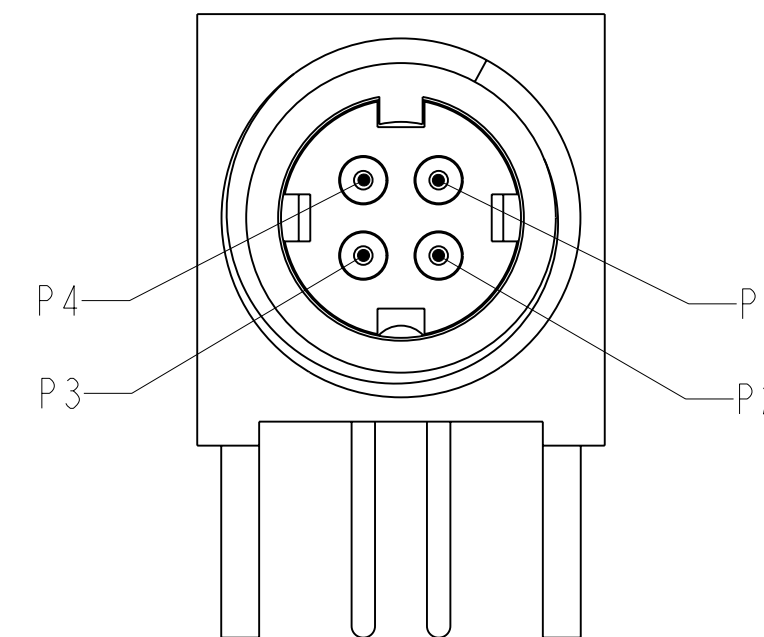
Eng. PDM Information For Reference Only

SHEET 1 OF 2

21-033837-351



RECOMMENDED PCB LAYOUT
SCALE 5.000



RECOMMENDED PIN IDENTIFICATION
SCALE 5.000

6. ELECTRICAL CHARACTERISTICS:

DIFFERENTIAL PAIRING:

PAIR #1:	P1-P3 (T1-T3)
PAIR #2:	P2-P4 (T2-T4)
MAXIMUM DATARATE (20dB MIN RETURN LOSS):	3.5 Gbps PER PAIR
NOMINAL IMPEDANCE (200ps 0-100% TDR RISE TIME):	110 +15/-2 Ω
DIFFERENTIAL SKEW (AT 1.75GHz):	25ps
NOMINAL LEG LENGTH DELTA: P1/P4 VS P2/P3:	+ .156 INCH

- 5. MATES WITH DIFFERENTIAL QUADRAx PLUG 21-033836-031 & OTHERS.
- 4. DRAWING ILLUSTRATES FINAL ASSEMBLY. PACKAGE PER PRODUCTION PROCESS SHEET.

- 3. MATERIALS:
 - INNER CONTACTS- BERYLLIUM COPPER PER ASTM-B-196
 - OUTER CONTACT- BERYLLIUM COPPER PER ASTM-B-196 OR BRASS PER ASTM B16
 - INSULATORS- TFE RESIN PER AMS3656, ASTM D1710, PFA 340, OR POLYETHERIMIDE

- 2. FINISH:
 - GOLD PLATED PER MIL-G-45204 TYPE II, GRADE C, CLASS I (.000050-.000100 THICK)
 - OVER NICKEL PLATE PER QQ-N-290 (.000050 MIN).

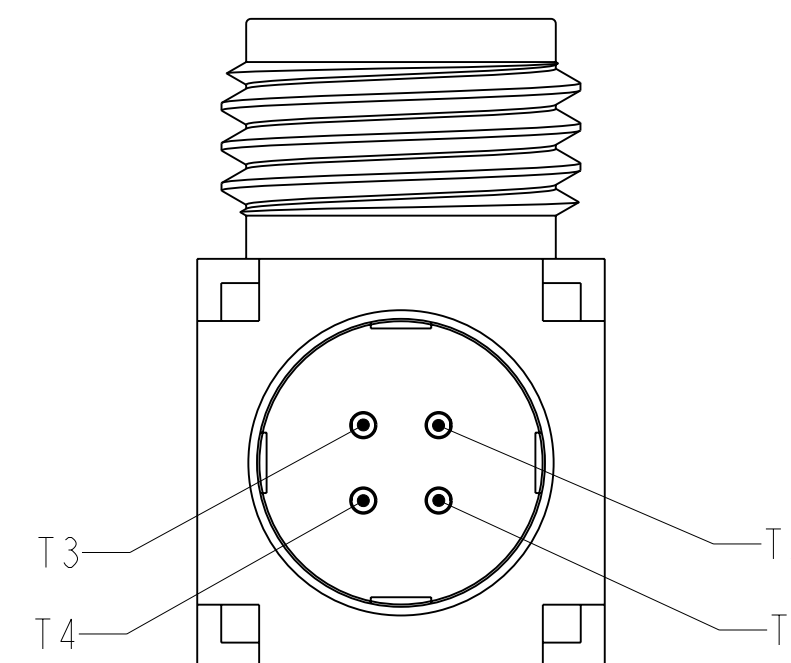
- 1. CONTACTS ARE DESIGNED FOR HIGH SPEED TO BOARD APPLICATIONS.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED. HOWEVER, DOCUMENTS REFERENCED HEREON MAY CONTAIN LIMITED RIGHTS DATA.

RELEASED / Aug . 11 2014, 4:15:32 PM

DOCUMENT NO. 21-033837-351 SHEET 2 OF 2 REV. A



SIZE C	CAGE CODE 77820	DOCUMENT NO. 21-033837-351	REV. A
SCALE: 5.0		REF: 21-033837-201	SHEET 2 OF 2