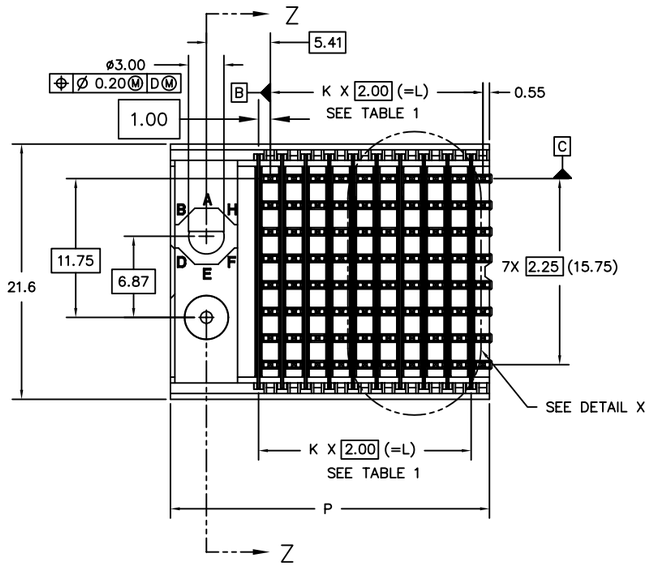
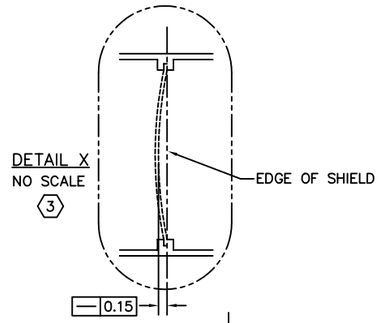
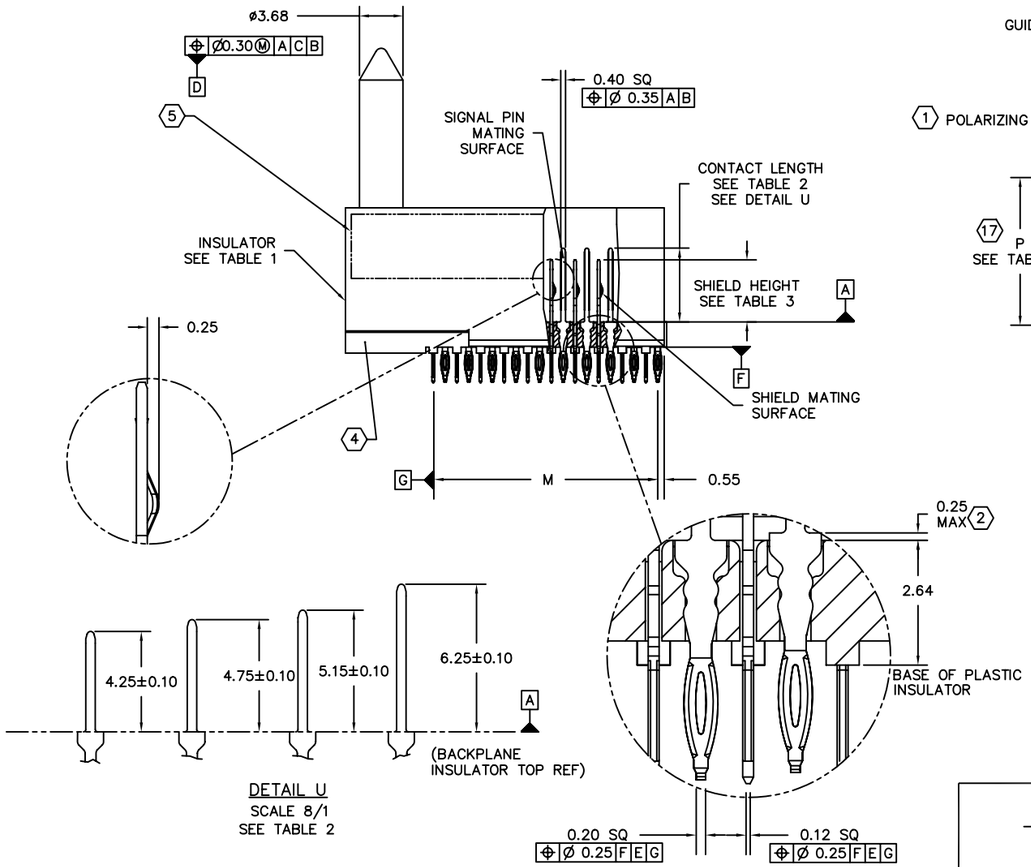
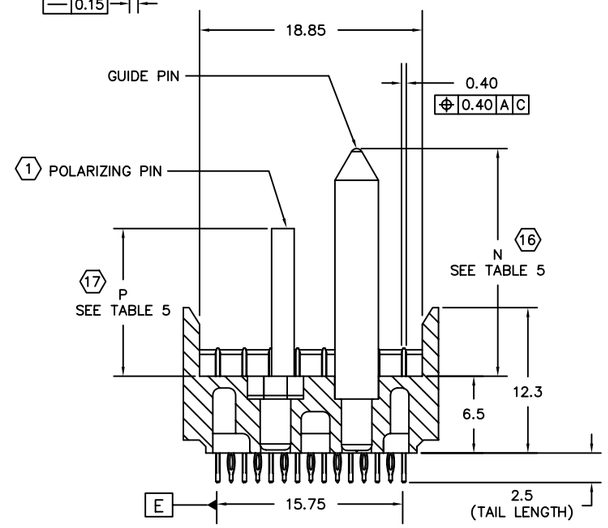
DWG NO.	SH	REV
C-495-5100-500	1	R

ZONE	REV	SCR NO.	DESCRIPTION	BY	DATE	APPROVED
–	–	25390	NEW RELEASE TO PRODUCTION	JG	8/11/98	C.MURPHY
–	A	26874	ADDED DATUMS AND POS TOL	R.C.	03/08/99	K.LEBLANC
–	B	30404	COMPLETE RECONFIGURE: SEE SCR	LL	3/24/00	K.LEBLANC
–	C	32005	ADDED NOTE 7, SEE SCR	SG	9/18/00	K.LEBLANC
–	D	33150	ADDED NOTE 8	SG	1/2/01	K.LEBLANC
–	E	40531	ADDED TABLE 5	SG	11/20/02	LI
–	F	40713	MODIFIED TABLES 3 & 5	SG	01/14/03	W.LI
–	G	41936	ADDED "L" SERIES	JSG	04/28/03	D. MANTER
–	H	42084	REVISE DATUMS, ADD PART REVS	M.L.	05/13/03	W.LI
–	J	KLEC-66RSRR.VER01	ADDED NOTES 16 & 17	SG	9/21/04	LEBLANC
–	K	MSTL-68QMT4.VER02	ADDED CUSTOM POL PIN	SG	1/31/05	LEBLANC
–	L	DMAG-6BSKMF.VER01	ADDED LEAD FREE PLATING OPTION	SG	4/26/05	S.BAIR
–	M	MFID-6CCHXZ.VER01	MODIFIED NOTE 4, LINE 1	SG	06/08/05	FITZGERALD
–	N	SBAR-6NKKUG.VER01	TABLE 2 & 3 MODIFIED	HCL	04/17/06	K.LEBLANC
–	P	MCHU-6U9JY7.VER01	UPDATED NOTE 7	HCL AP	10/11/06	K.LEBLANC
–	R	CSAS-82CUAG.VER01	ADDED NEW PART NUMBERS FOR NEW PLATING CODES IN ASSEMBLY PART NUMBER ASSIGNMENT TREE. MODIFIED NOTES 6 & 7. REMOVED NOTE 15 AND TABLE 6.	HCL-MH	02/07/2010	C.SAMMIS









SECTION Z-Z
ROTATED 90° CCW

TOLERANCES		DWN 2/4/97 J.Varhegyi
0.0	± 0.25	CHK 2/14/97 D.Provencher
0.00	± 0.13	APVD C.MURPHY
0.000	± –	
ANGLES	± –	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

Amphenol TCS
A Division of Amphenol Corporation
200 Innovative Way, suite 201, Nashua, N.H. 03062 (603) 879-3000

TITLE
GUIDANCE/POLARIZING MODULE
8 ROW VHDM BACKPLANE (LEFT)

INTERPRET PER ASME Y14.5M

CUSTOMER USE DRAWING

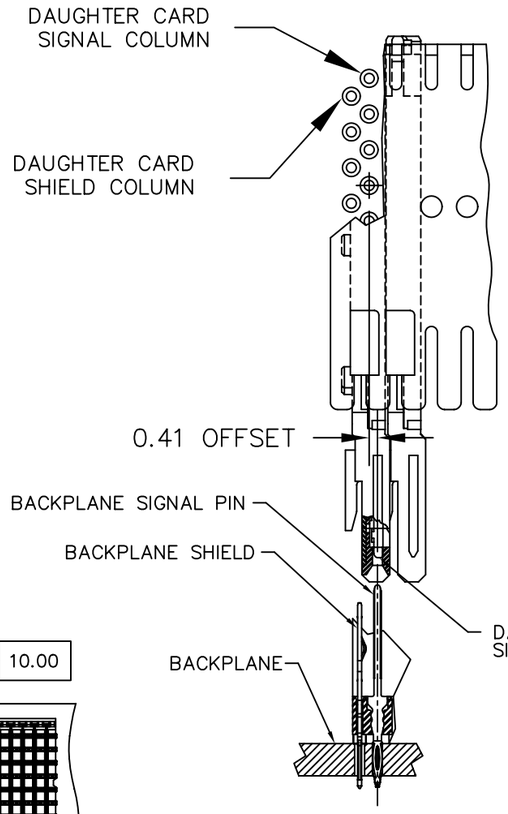
CODE IDENT 31413

PART NO. SEE PART NUMBER TREE	REV N/A
DRAWING NO. C-495-5100-500	REV R
SIZE D	SCALE 4/1	SHEET 1 OF 4

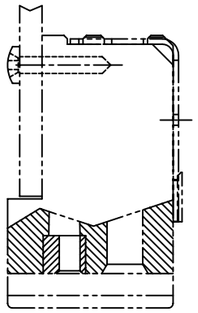
DWG NO. C-495-5100-500 SH 1 REV R

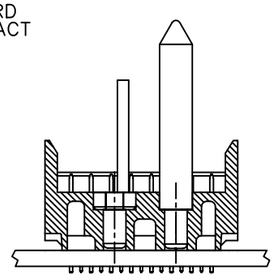
DWG NO.	SH	REV
C-495-5100-500	2	R

ZONE	REV	SCR NO.	DESCRIPTION	BY	DATE	APPROVED
			SEE SHEET 1			

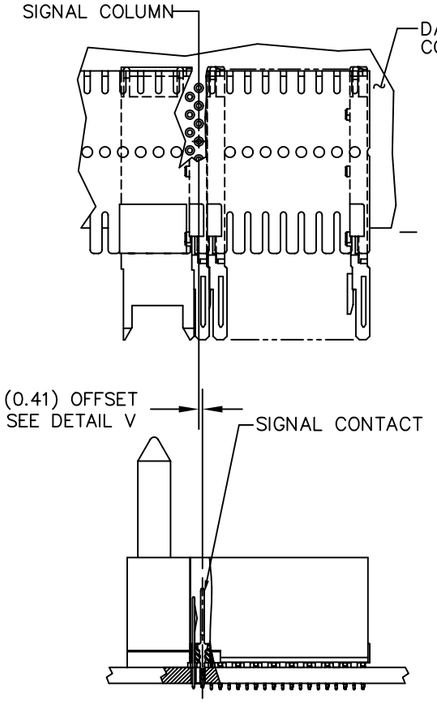


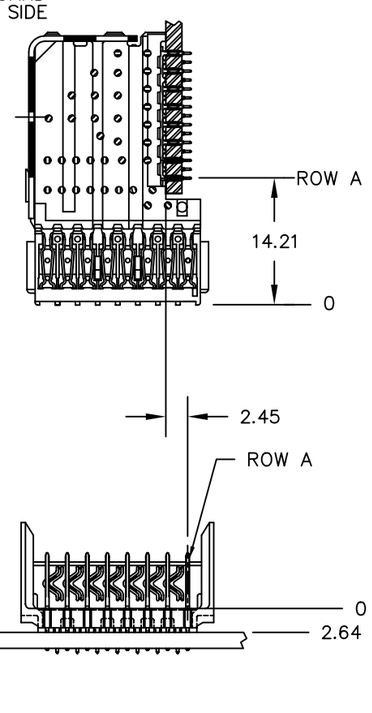
DETAIL V
SCALE 6/1

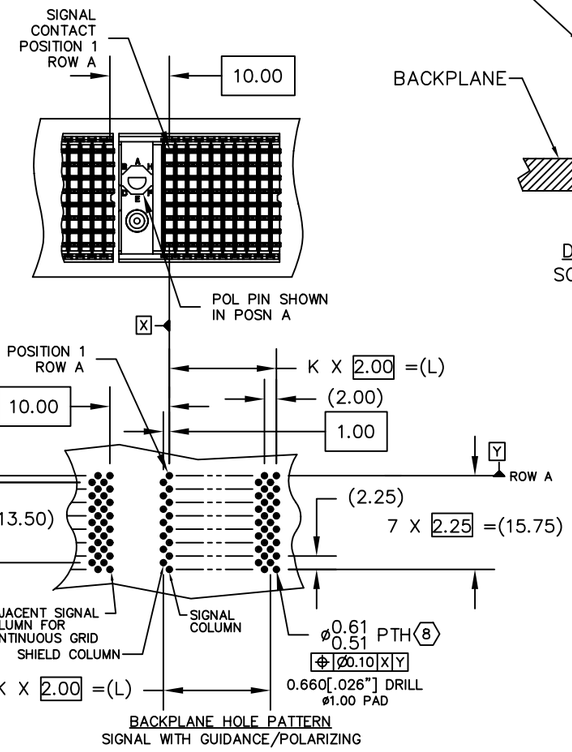




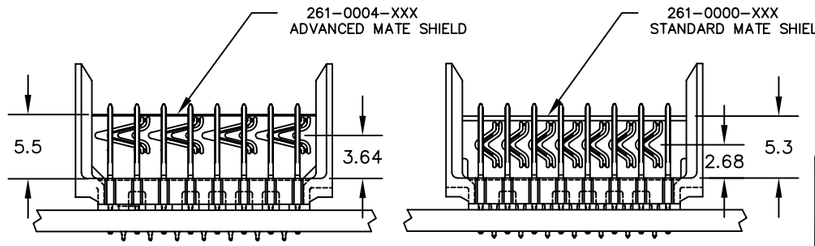
INITIAL ENGAGEMENT
(CUTAWAY FOR CLARITY)







BACKPLANE HOLE PATTERN
SIGNAL WITH GUIDANCE/POLARIZING



DETAIL W
SCALE 2/1

TOLERANCES	
0.0	± 0.25
0.00	± 0.13
0.000	± –
ANGLES	± –

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

DWN 2/4/97 J.Varhegyi
CHK 2/14/97 D.Provencher
APVD C.MURPHY

Amphenol TCS
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200 Innovative Way, suite 201, Nashua, N.H. 03062 (603) 879-3000

TITLE
GUIDANCE/POLARIZING MODULE
8 ROW VHDM BACKPLANE (LEFT)

INTERPRET PER ASME Y14.5M

CODE IDENT 31413

CUSTOMER USE DRAWING

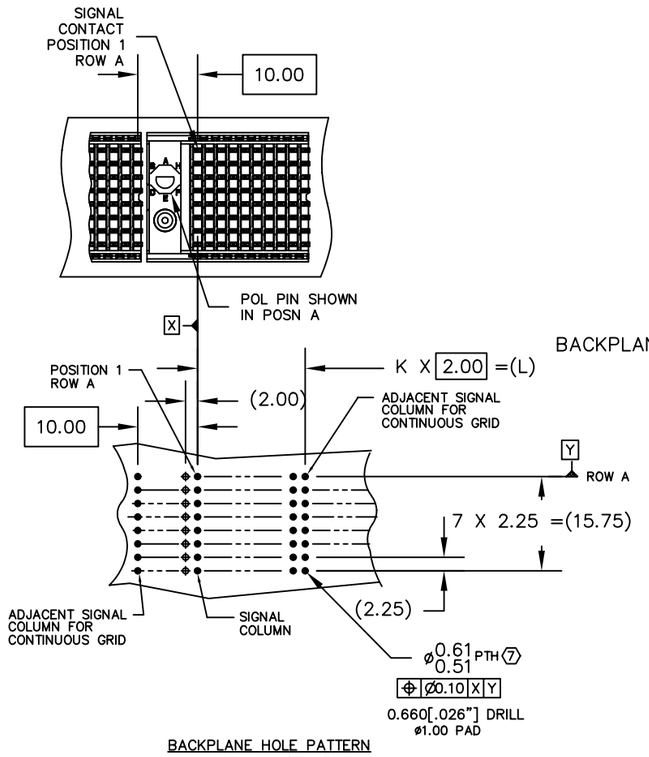
PART NO. SEE PART NUMBER TREE — REV N/A
DRAWING NO. C-495-5100-500 — REV R
SIZE D | SCALE 2/1 | SHEET 2 OF 4

DWG NO. C-495-5100-500 | SH 2 | REV R

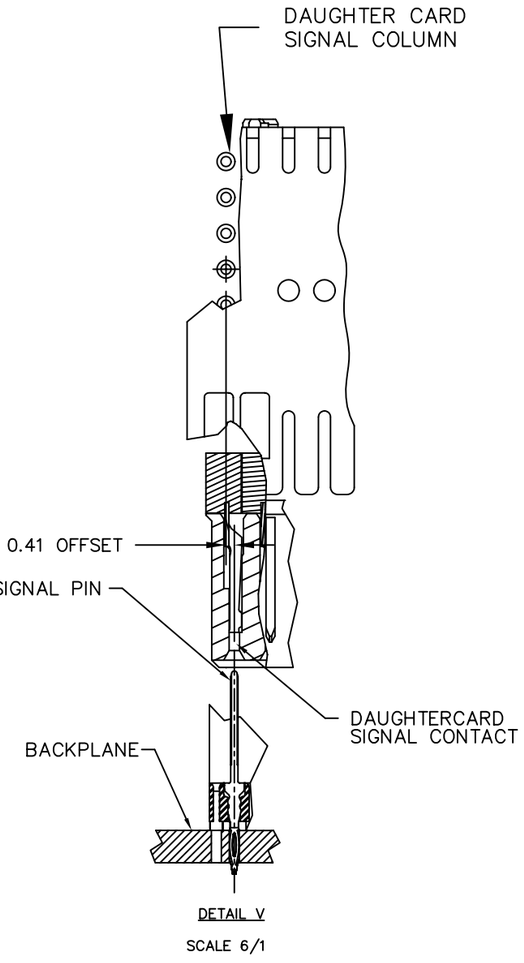
DWG NO.	SH	REV
C-495-5100-500	3	R

ZONE	REV	SCR NO.	DESCRIPTION	BY	DATE	APPROVED
			SEE SHEET 1			

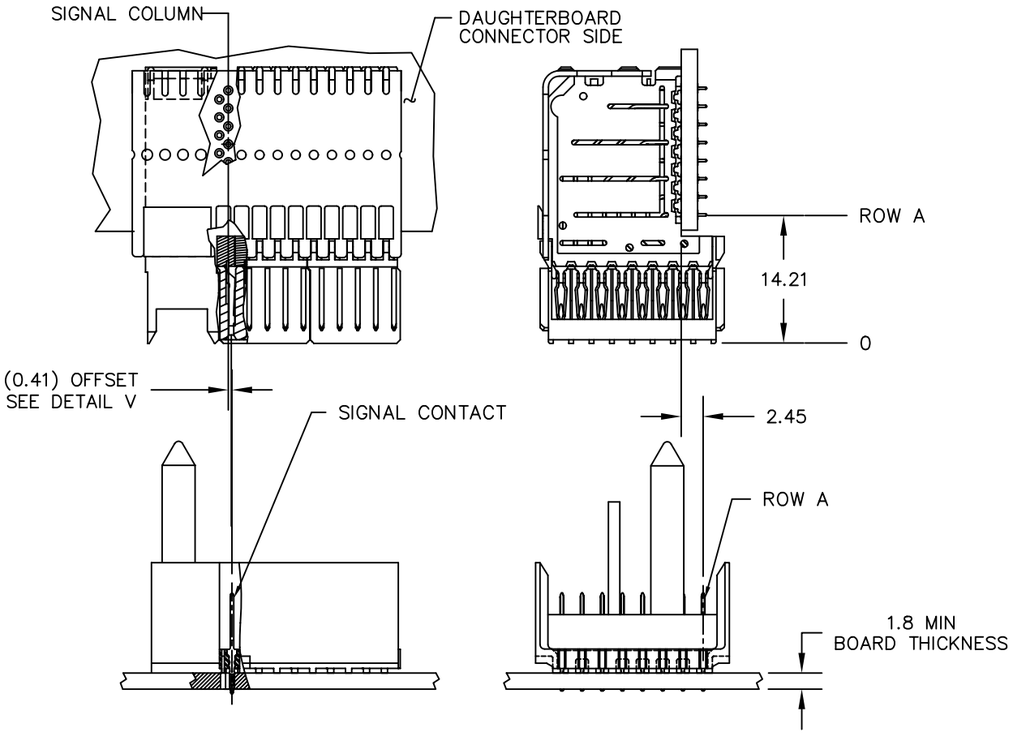
VHDM L-SERIES 8 ROW SHOWN
493-30XX-XXX



BACKPLANE HOLE PATTERN
SIGNAL MODULE



DETAIL V
SCALE 6/1



TOLERANCES	
0.0	± 0.25
0.00	± 0.13
0.000	± –
ANGLES	± –

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

DWN 2/4/97 J.Varhegyi
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TITLE
GUIDANCE/POLARIZING MODULE
8 ROW VHDM BACKPLANE (LEFT)

INTERPRET PER ASME Y14.5M

CODE IDENT 31413

CUSTOMER USE DRAWING

PART NO.	REV
SEE PART NUMBER TREE	N/A
DRAWING NO. C-495-5100-500	REV R

SIZE D | SCALE 2/1 | SHEET 3 OF 4

DWG NO. C-495-5100-500 | SH 3 | REV R

ZONE	REV	SCR NO.	DESCRIPTION	BY	DATE	APPROVED
			SEE SHEET 1			

BACKPLANE GUIDANCE/POLARIZING MODULE ASSEMBLY PART NUMBER ASSIGNMENT ⟨6⟩

495 – X 1 XX – X X X

- MODULE CONFIGURATION GUIDANCE/POLARIZING TYPE
- ASSEMBLY TYPE
  - 2 – CUSTOM LOAD, LEAD FREE
  - 3 – L-SERIES
  - 5 – UNIFORM LOAD, 702X
  - 6 – UNIFORM LOAD, BRUSH 60
  - 7 – CUSTOM LOAD, LEADED
  - 8 – ADVANCE MATE, UNIFORM LOAD 702X
  - 9 – ADVANCE MATE, UNIFORM LOAD BRUSH
  - L – CUSTOM LOAD, LEADED, ADVANCED PLATING.
  - N – CUSTOM LOAD, LEAD FREE, ADVANCED PLATING
- MODULE ORIENTATION
  - 1 – LEFT
- NUMBER OF COLUMNS (SEE TABLE 1)
  - 10 = 10 COLUMN MODULE
  - 25 = 25 COLUMN MODULE
- POLARIZING PIN LOCATION CODE (SEE TABLE 4) ⟨1⟩
- PLATING CODE ⟨7⟩
  - 0 = 735
  - 1 = 732
  - 2 = 769
  - 3 = 768
  - 4 = 804
  - 5 = 803
  - 6 = 806
  - 7 = 805
- SIGNAL CONTACT LOAD (SEE TABLE 2) (PIN LENGTH)
  - 1 = 4.75
  - 2 = 6.25
  - 3 = 4.25
  - 4 = 5.15

TABLE 1

ASSEMBLY PART NUMBER ⟨7⟩	BACKPLANE GUIDANCE POLARIZING MODULE	K	(L)	M	P	TOTAL NUMBER OF SIGNAL CONTACTS	TOTAL NUMBER OF GROUND SHIELD
495-3110-XXX	495-0110-060	9	(18.00)	19.00	27	80	N/A
495-3125-XXX	495-0125-060	24	(48.00)	49.00	57	200	N/A
495-(5,6,8,9)110-XXX	495-0110-060	9	(18.00)	19.00	27	80	10
495-(5,6,8,9)125-XXX	495-0125-060	24	(48.00)	49.00	57	200	25

TABLE 2

ASSEMBLY PART NUMBER ⟨7⟩	SIGNAL CONTACT	CONTACT LENGTH
495-(3,5,8)1XX-XX1	260-0022- ⟨7⟩	4.75
495-(3,5,8)1XX-XX2	260-0021- ⟨7⟩	6.25
495-(3,5,8)1XX-XX3	260-0023- ⟨7⟩	4.25
495-(3,5,8)1XX-XX4	260-0024- ⟨7⟩	5.15
495-(6,9)1XX-XX1	260-0002- ⟨7⟩	4.75
495-(6,9)1XX-XX2	260-0001- ⟨7⟩	6.25
495-(6,9)1XX-XX3	260-0003- ⟨7⟩	4.25
495-(6,9)1XX-XX4	260-0004- ⟨7⟩	5.15

TABLE 3 (SEE DETAIL W, SHT 2)

ASSEMBLY PART NUMBER ⟨7⟩	SHIELD CONTACT	SHIELD HEIGHT
495-31XX-XXX	N/A	N/A
495-51XX-XXX	261-0020- ⟨7⟩	5.3
495-61XX-XXX	261-0000- ⟨7⟩	5.3
495-81XX-XXX	261-0024- ⟨7⟩	5.5
495-91XX-XXX	261-0004- ⟨7⟩	5.5

TABLE 4 ⟨1⟩

PART NUMBER 495-(3,5,6,8,9)1XX-( )	-0XX	-AXX	-BXX	-CXX	-DXX	-EXX	-FXX	-GXX	-HXX
POLARIZING PIN ORIENTATION	0 (NO KEY)	A	B	C	D	E	F	G	H

TABLE 5 ⟨16⟩⟨17⟩

GUIDE/POLARIZING PIN	PART NUMBER	N	P
STANDARD GUIDE PIN	564-0385-553	19.3	–
CUSTOM GUIDE PIN	564-0420-553	17.3	–
CUSTOM GUIDE PIN	564-0487-553	13.4	–
STANDARD POL. PIN	564-0387-540	–	12.6
CUSTOM POL. PIN	564-0457-553	–	12.6
CUSTOM POL. PIN	564-0482-553	–	13.6

⟨17⟩ STANDARD GUIDE PIN (564-0385-553) AND STANDARD POLARIZING PIN (564-0387-540) ARE IN STANDARD 5000 SERIES MODEL ASSEMBLIES. ANY GUIDE PIN OR POLARIZING PIN OTHER THAN THESE STANDARD NUMBERS WILL RESULT IN CUSTOM 7000 SERIES MODULE ASSEMBLIES BEING ASSIGNED.

⟨16⟩ USING GUIDE PINS THAT ARE SHORTER THAN THE STANDARD HEIGHT OF 19.3mm AND POLARIZING PINS THAT ARE SHORTER THAN THE STANDARD HEIGHT OF 12.6mm MAY NOT PROVIDE THE SUFFICIENT X AND Y AXIS ALIGNMENT AND POLARIZING PROTECTION PRIOR TO COMMENCEMENT OF ALL COMPONENT MATING SEQUENCES. CONSULT TERADYNE APPLICATIONS ENGINEERING PRIOR TO SYSTEMS DESIGN AND COMPONENT SELECTION.

15. REMOVED.

14. DATUM -G- IS DEFINED AS THE CENTERLINE OF THE CONNECTOR MEASURED FROM THE TWO OUTERMOST ROWS OF SIGNAL AND SHIELD CONTACTS TAIL SIDE.

13. DATUM -F- IS DEFINED AS THE BOTTOM SURFACE OF THE PLASTIC INSULATOR.

12. DATUM -E- IS DEFINED AS THE CENTERLINE OF THE CONNECTOR MEASURED FROM THE TWO OUTERMOST COLUMNS OF SIGNAL CONTACTS TAIL SIDE.

11. DATUM -C- IS DEFINED AS THE CENTERLINE OF THE CONNECTOR MEASURED FROM THE TWO OUTERMOST COLUMNS OF SIGNAL CONTACT HOLES.

10. DATUM -B- IS DEFINED AS THE CENTERLINE OF THE TOP OF THE OUTERMOST WAFER SLOTS IN THE INSULATOR WALLS.

9. DATUM -A- IS DEFINED AS THE WAFER MATING SURFACE OF THE PLASTIC INSULATOR.

⟨8⟩ FOR HASL FINISH ONLY, PTH TO BE ø0.61 – ø0.495 mm.

⟨7⟩ THE LAST 3 DIGITS OF SIGNAL CONTACT AND SHEILD CONTACT PART NUMBERS ARE DETERMINED BY PLATING CODE, PER EGS 205. MATCHES PLATING DEFINED BY THE 9TH DIGIT OF ASSEMBLY PART NUMBER.
- 735 = Ni SULFAMATE, STANDARD GOLD, LEADED
- 732 = Ni SULFAMATE, HIGH GOLD, LEADED
- 769 = Ni SULFAMATE, STANDARD GOLD, LEAD-FREE
- 768 = Ni SULFAMATE, HIGH GOLD, LEAD-FREE
- 804 = NANO Ni, STANDARD GOLD, LEADED
- 803 = NANO Ni, HIGH GOLD, LEADED
- 806 = NANO Ni, STANDARD GOLD, LEAD-FREE
- 805 = NANO Ni, HIGH GOLD, LEAD-FREE

⟨6⟩ IF MODULE PART NUMBER IS 495-2XXX-XXX OR 495-7XXX-XXX OR 495-LXXX-XXX OR 495-NXXX-XXX MODULE ORIENTATION, NUMBER OF COLUMNS,PLATING CODE, PART REVISION, AND SIGNAL CONTACT LOAD ARE NOT APPLICABLE.

⟨5⟩ PART MARKING AS FOLLOWS:

LINE 1: ATCSYYWWDHH (LOGO, YEAR, WEEK, DAY, HOUR)

LINE 2: MODULE PART NUMBER(495#######).

LINE 3: WORK ORDER NUMBER(VH*######), WHERE "*" DENOTES MANUFACTURING LOCATION.

⟨4⟩ OPEN, NOTCH END DESIGNATES COLUMN 1.

⟨3⟩ SHIELDS SHALL BE STRAIGHT WITH MAXIMUM ALLOWABLE BOW OF 0.15 MILLIMETERS ON EITHER SIDE OF SHIELD. SEE DETAIL "X".

⟨2⟩ WHEN ASSEMBLED TO BACKPLANE INSULATOR, CONTACTS MUST SEAT FLUSH WITH INSULATOR TOP SURFACE TO A MAXIMUM ALLOWABLE GAP OF 0.25.

⟨1⟩ POLARIZING PIN MUST ALIGN AS INDICATED BY PART NUMBER CODE. (SEE TABLE 4) TO INSURE PROPER ALIGNMENT, THE OCTAGNAL BASE PORTION OF THE PIN MUST BE POSITIONED INTO THE CORESPONDING MOLDED CAVITY.

NOTES:

TOLERANCES	
0.0	± 0.25
0.00	± 0.13
0.000	± –
ANGLES	± –

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

DWN 2/4/97 J.Varhegyi
CHK 2/14/97 D.Provencher
APVD C.MURPHY

Amphenol TCS
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200 Innovative Way, suite 201, Nashua, N.H. 03062 (603) 879-3000

TITLE: GUIDANCE/POLARIZING MODULE 8 ROW VHDM BACKPLANE (LEFT)

INTERPRET PER ASME Y14.5M

CODE IDENT 31413

CUSTOMER USE DRAWING

PART NO. SEE PART NUMBER TREE | REV N/A

DRAWING NO. C-495-5100-500 | REV R

SIZE D | SCALE 2/1 | SHEET 4 OF 4

DWG NO. C-495-5100-500 | SH 4 | REV R