

8 7 6 5 4 3

DWG NO. C-498-5100-500 SH 1 REV T

ZONE	REV	SCR NO.	DESCRIPTION	BY	DATE	APPROVED
-	-	25397	NEW RELEASE TO PRODUCTION	JG	8/10/98	C.MURPHY
-	A	26874	ADDED DATUMS AND POS TOL	R.C.	03/10/99	K.LEBLANC
-	B	30404	COMPLETE RECONFIGURE; SEE SCR	LL	3/24/00	K.LEBLANC
-	C	32008	ADDED NOTE 7, SEE SCR	SG	9/18/00	K.LEBLANC
-	D	33146	ADD NOTE 8 AND TABLE 3	SG	1/02/01	K.LEBLANC
-	E	34312	ADDED -10X ROUND PIN	JSG	3/22/01	PROVENCHER
-	F	40790	MODIFIED TABLE 3	SG	12/19/02	W.LI
-	G	40882	EDIT NOTES,ADDED TABLE 5	ED	01/14/03	W.LI
-	H	41937	ADDED "L" SERIES	JSG	04/25/03	D. MANTERI
-	J	42089	REVISE DATUMS, ADD PART REV	M.L.	05/22/03	W.LI
-	K	KLEC-63ZR3G.VER02	ADDED NOTES 16 & 17	SG	9/21/04	LEBLANC
-	L	MSTL-68QMT4.VER02	ADDED CUSTOM POL PIN	SG	1/31/05	LEBLANC
-	M	DMAG-6BTGR5.VER01	ADDED LEAD FREE PLATING OPTION	SG	4/26/05	S.BAIR
-	N	MFID-6CCHXZ.VER01	MODIFIED NOTE 5, LINE 1	SG	06/08/05	FITZGERALD
-	P	MLEE-6K5QJM.VER01	REPLACED DRAWING FORMAT	ML	01/19/06	C.SAMMIS
-	R	SBAR-6NLJB6.VER02	MODIFIED TABLE 2, TABLE 3 AND PART NUMBER ASSIGNMENT	HCL	04/26/06	K.LEBLANC
-	T	CSAS-82BLNU.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	02/05/2010	C.SAMMIS

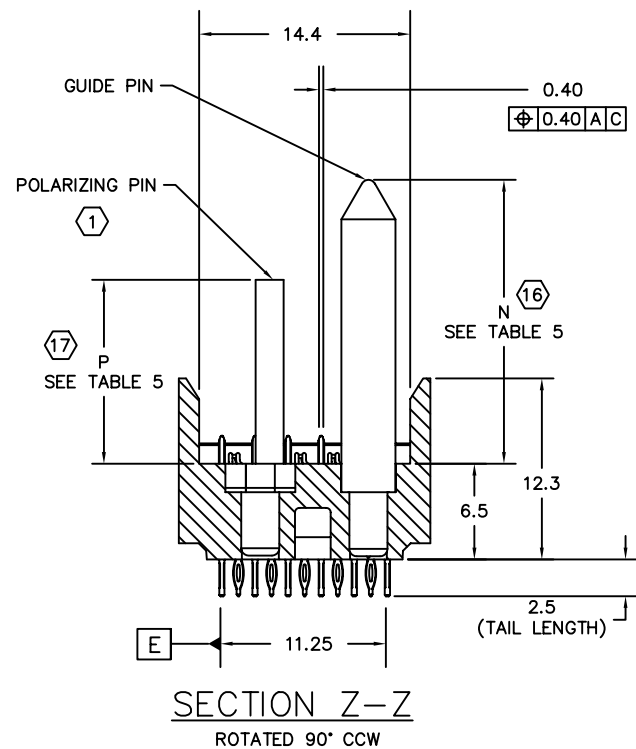
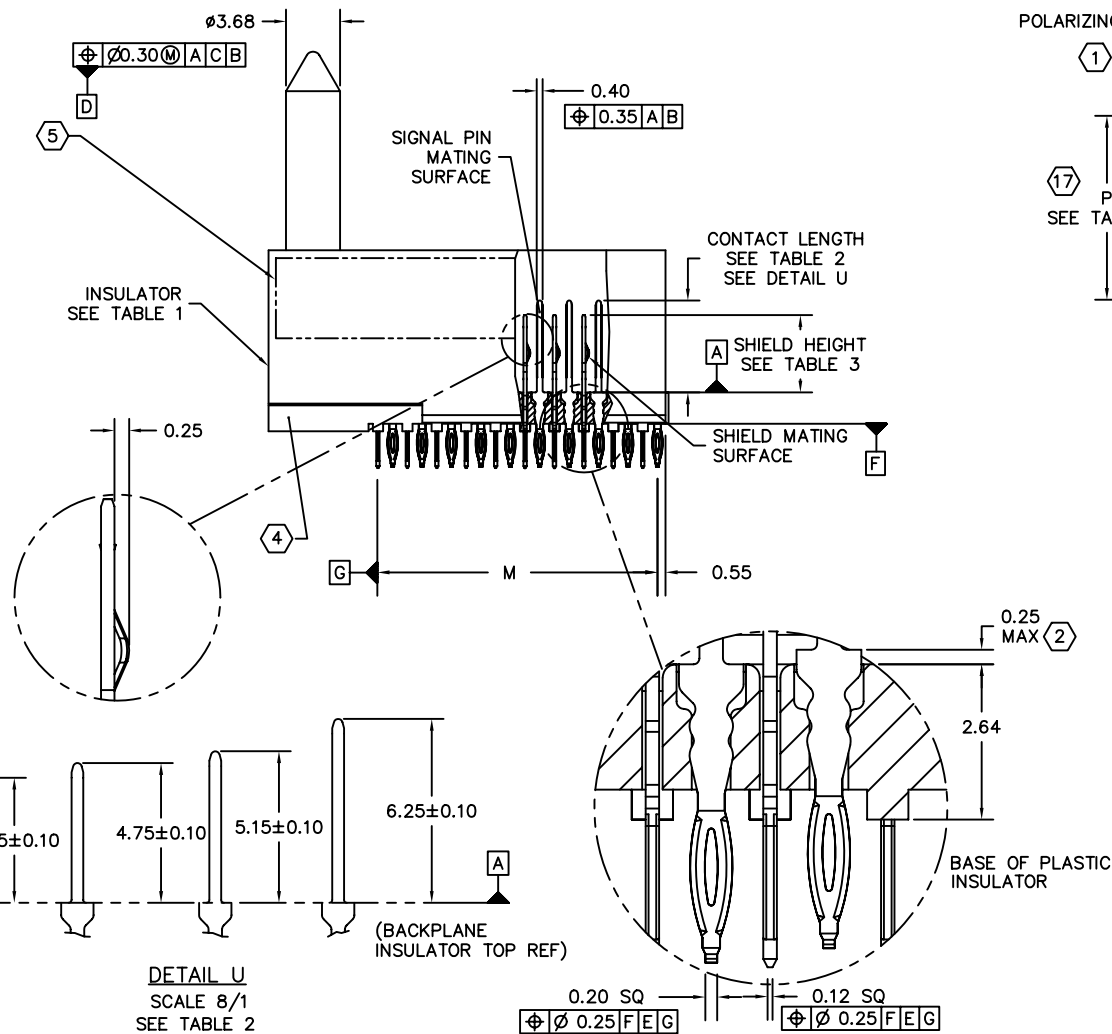
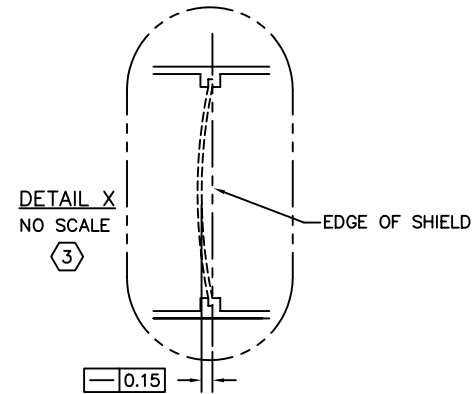
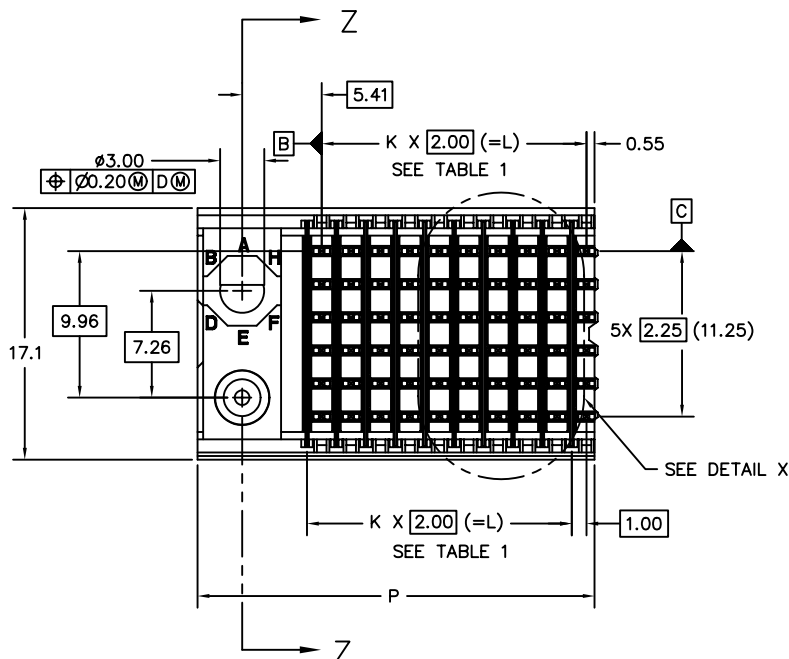
D

C

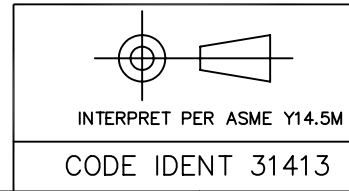
DWG NO. C-498-5100-500

SH 1

REV T



TOLERANCES		DWN 2/11/97 J.Varhegyi	Amphenol TCS A Division of Amphenol Corporation 200 Innovative Way, suite 201, Nashua, N.H. 03082 (603) 879-3000	
0.0	± 0.25	CHK 2/14/97 D.Provencher		
0.00	± 0.13	APVD		
0.000	± -	C.MURPHY		
ANGLES ± -			TITLE GUIDANCE/POLARIZING MODULE 6 ROW VHDM BACKPLANE (LEFT)	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			PART NO. SEE PART NUMBER TREE	
CUSTOMER USE DRAWING			REV N/A	
			DRAWING NO. C-498-5100-500	
			REV T	
SIZE D		SCALE 4/1	SHEET 1 OF 4	



8 7 6 5 4 3 2 1

8 7 6 5 4 3

DWG NO. C-498-5100-500 SH 2 REV T

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

DAUGHTER CARD
SHIELD COLUMN

DAUGHTER CARD
SIGNAL COLUMN

0.41 OFFSET

BACKPLANE SIGNAL PIN

BACKPLANE SHIELD

BACKPLANE

DAUGHTERCARD
SIGNAL CONTACT

DETAIL V
SCALE 6/1

SIGNAL
CONTACT
POSITION 1
ROW A

10.00

POL PIN SHOWN
IN POSN A

POSITION 1
ROW A

10.00

K X 2.00 = (L)

(2.00)

1.13

1.00

ROW A

5 X 2.25 = (11.25)

(2.25)

0.61 PTH

0.51

0.660 [0.026"] DRILL

1.00 PAD

ADJACENT SIGNAL
COLUMN FOR
CONTINUOUS GRID
SHIELD COLUMN
K X 2.00 = (L)

BACKPLANE HOLE PATTERN
SIGNAL WITH GUIDANCE/POLARIZING

262-0004-XXX
ADVANCED MATE SHIELD

INITIAL ENGAGEMENT
(CUTAWAY FOR CLARITY)

262-0000-XXX
STANDARD MATE SHIELD

5.5
3.64

5.3
2.68

DETAIL W
SCALE 1.5/1

SIGNAL COLUMN

DAUGHTERBOARD
CONNECTOR SIDE

(0.41) OFFSET
SEE DETAIL 5

SIGNAL CONTACT

ROW A

12.36

0

0.66

ROW A

1.8 MIN.
BOARD

TOLERANCES		DWN	2/11/97
0.0	± 0.25	CHK	J.Varhegyi
0.00	± 0.13		D.Provencher
0.000	± -	APVD	C.MURPHY
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
6 ROW VHDM BACKPLANE (LEFT)

PART NO.
SEE PART NUMBER TREE

REV
N/A

DRAWING NO.
C-498-5100-500

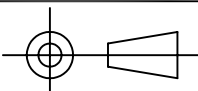
REV
T

SIZE D

SCALE 2/1

SHEET 2 OF 4

CUSTOMER USE
DRAWING



INTERPRET PER ASME Y14.5M

CODE IDENT 31413

D

C

B

A

D

C

B

A

DWG NO. C-498-5100-500

SH 2

REV T

8 7 6 5 4 3 2 1

498 - 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 - ADVANCED MATE, UNIFORM LOAD 702X
9 - ADVANCED MATE, UNIFORM LOAD BRUSH
L - CUSTOM LOAD, LEADED, ADVANCED PLATING.
N - CUSTOM LOAD, LEAD FREE, ADVANCED PLATING

MODULE ORIENTATION
1 - LEFT

SIGNAL CONTACT LOAD (SEE TABLE 2)
(PIN LENGTH)
1 = 4.75
2 = 6.25
3 = 4.25
4 = 5.15

POLARIZING PIN LOCATION CODE (SEE TABLE 4)

PLATING CODE (7)

0 = 735 4 = 804
1 = 732 5 = 803
2 = 769 6 = 806
3 = 768 7 = 805

NUMBER OF COLUMNS (SEE TABLE 1)
10 = 10 COLUMN MODULE
25 = 25 COLUMN MODULE

ASSEMBLY PART NUMBER	SIGNAL CONTACT	CONTACT LENGTH
498-(3,5,8)1XX-XX1	260-0022-7	4.75
498-(3,5,8)1XX-XX2	260-0021-7	6.25
498-(3,5,8)1XX-XX3	260-0023-7	4.25
498-(3,5,8)1XX-XX4	260-0024-7	5.15
498-(6,9)1XX-XX1	260-0002-7	4.75
498-(6,9)1XX-XX2	260-0001-7	6.25
498-(6,9)1XX-XX3	260-0003-7	4.25
498-(6,9)1XX-XX4	260-0004-7	5.15

ASSEMBLY PART NUMBER	SHIELD CONTACT	SHIELD HEIGHT
498-31XX-XXX	NA	NA
498-51XX-XXX	262-0020- (7)	5.3
498-61XX-XXX	262-0000- (7)	5.3
498-81XX-XXX	262-0024- (7)	5.5
498-91XX-XXX	262-0004- (7)	5.5

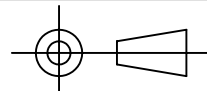
TABLE 4 1										
PART NUMBER 498-(3,5,6,8,9)1XX-()	-0XX	-AXX	-BXX	-CXX	-DXX	-EXX	-FXX	-GXX	-HXX	-1XX
POLARIZING PIN ORIENTATION	0  (NO KEY)	A 	B 	C 	D 	E 	F 	G 	H 	1  ROUND PIN

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 ONLY, PTH TO BE $\varnothing 0.61 - \varnothing 0.495\text{mm}$
7. THE LAST 3 DIGITS OF THE SIGNAL CONTACT AND THE SHIELD CONTACT PART NUMBERS ARE DETERMINED BY THE PLATING CODE, PER EGS205. 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 498-2XXX-XXX OR 498-7XXX-XXX OR 498-LXXX-XXX OR 498-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: ATCSYYWDDHH (LOGO, YEAR, WEEK, DAY, HOUR)
LINE 2: MODULE PART NUMBER(498#####).
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 OCTAGONAL BASE PORTION OF THE PIN MUST BE POSITIONED INTO THE CORRESPONDING MOLDED CAVITY.

NOTES:

TOLERANCES		DWN 2/11/97 J. Varhegyi	Amphenol TCS A Division of Amphenol Corporation 200 Innovative Way, suite 201, Nashua, N.H. 03062 (603) 879-3000		
0.0	± 0.25	CHK 2/14/97			
0.00	± 0.13	D.Provencher	TITLE GUIDANCE/POLARIZING MODULE 6 ROW VHDM BACKPLANE (LEFT)		
0.000	± —	APVD			
ANGLES	± —	C.MURPHY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
CUSTOMER USE DRAWING			PART NO. SEE PART NUMBER TREE		REV N/A
			DRAWING NO. C-498-5100-500		REV T
		SIZE D	SCALE 2/1	SHEET 4 OF 4	



INTERPRET PER ASME Y14.5M

CODE IDENT 31413

CUSTOMER USE
DRAWING

Amphenol TCS

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

TITLE	GUIDANCE/POLARIZING MODULE 6 ROW VHDM BACKPLANE (LEFT)
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PART NO. SEE PART NUMBER TREE	REV N/A
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DRAWING NO.	REV
C-498-5100-500	T

SIZE D	SCALE 2/1	SHEET 4 OF 4
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