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BACKPLANE GUIDANCE/POLARIZING MODULE
ASSEMBLY PART NUMBER ASSIGNMENT

499 - X 0 XX - X X X

MODULE CONFIGURATION
GUIDANCE/POLARIZING TYPE

ASSEMBLY TYPE
2 - CUSTOM LOADED, LEAD FREE
5 - UNIFORM LOAD, 702X
6 - UNIFORM LOAD, BRUSH 60
7 - CUSTOM LOADED, 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
0 - RIGHT
NUMBER OF COLUMNS
(SEE TABLE 1)
10 - 10 COLUMN MODULE
25 - 25 COLUMN MODULE

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

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

POLARIZING PIN
LOCATION CODE
(SEE TABLE 4)

TABLE 1

ASSEMBLY PART NUMBER	BACKPLANE GUIDANCE POLARIZING MODULE	K	(L)	M	P	TOTAL NUMBER OF SIGNAL CONTACTS	TOTAL NUMBER OF GROUND SHIELDS
499-(5,6,8,9)010-XXX	499-0010-070	9	(18.00)	18.00	27	60	10
499-(5,6,8,9)025-XXX	499-0025-070	24	(48.00)	48.00	57	150	25

TABLE 2

ASSEMBLY PART NUMBER	SIGNAL CONTACT	CONTACT LENGTH
499-(5.8)0XX-XX1	260-0022-1	4.75
499-(5.8)0XX-XX2	260-0021-1	6.25
499-(5.8)0XX-XX3	260-0023-1	4.25
499-(5.8)0XX-XX4	260-0024-1	5.15
499-(6.9)0XX-XX1	260-0002-1	4.75
499-(6.9)0XX-XX2	260-0001-1	6.25
499-(6.9)0XX-XX3	260-0003-1	4.25
499-(6.9)0XX-XX4	260-0004-1	5.15

TABLE 3 (SEE DETAIL W, SHT 2)

ASSEMBLY PART NUMBER	SHIELD CONTACT	CONTACT LENGTH
499-50XX-XXX	279-0022-1	5.3
499-60XX-XXX	279-0002-1	5.3
499-80XX-XXX	279-0024-1	5.5
499-90XX-XXX	279-0004-1	5.5

TABLE 4

PART NUMBER 499-(5,6,8,9)0XX-(XXX)	-0XX	-AXX	-BXX	-CXX	-DXX	-EXX	-FXX	-GXX	-HXX
POLARIZING PIN ORIENTATION									

18 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 7XXX OR 2XXX OR LXXX OR NXXX SERIES MODULE ASSEMBLIES BEING ASSIGNED.

17 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 AMPHENOL-TCS APPLICATIONS ENGINEERING PRIOR TO SYSTEMS DESIGN AND COMPONENT SELECTION.

16 REMOVED.

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

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

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

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

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

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

9. ROUTE DIFFERENTIAL PAIRS THROUGH ROWS A-B, D-E, AND G-H.

8 FOR HASL FINISH ONLY, PTH TO BE $\varnothing 0.61 - \varnothing 0.495\text{mm}$.

7 LAST THREE DIGITS OF THE SIGNAL CONTACT AND SHIELD CONTACT PART NUMBERS ARE DETERMINED BY THE PLATING CODE. MATCHES PLATING DEFINED BY 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 499-7XXX-XXX OR 499-2XXX-XXX OR 499-LXXX-XXX OR 499-NXXX-XXX; PART REVISION, MODULE ORIENTATION, NUMBER OF COLUMNS, PLATING CODE, AND SIGNAL CONTACT LOAD ARE NOT APPLICABLE.

5 PART MARKING AS FOLLOWS:
LINE 1: ATCSYYWDDH (LOGO, YEAR, WEEK, DAY, HOUR)
LINE 2: MODULE PART NUMBER(499#####)
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.

NOTES: 1 POLARIZING PIN MUST ALIGN AS INDICATED BY PART NUMBER CODE. (SEE TABLE 4) TO INSURE PROPER ALIGNMENT, THE OCTOGONAL BASE PORTION OF THE PIN MUST BE POSITIONED INTO THE CORRESPONDING MOLDED CAVITY.

TABLE 5

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

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