

REVISIONS

06/21/10

TP

S. HILLERRICH

RELEASED FOR LIMITED PRODUCTION

08/24/10

CL

M. PUFFER

UPDATE CONNECTOR HEIGHTS IN SIDE VIEW.

09-22-10

LM

M. PUFFER

UPDATE ITEM NUMBERS IN BOM.

10-08-10

VJ

J. SMALLWOOD

RELEASE FOR PRODUCTION:ADD COVERFILM OPENINGS UNDER CONNECTOR STANDOFFS

RoHS Compliant

82

Pb

LEAD

PRODUCT MUST WITHSTAND LEAD-FREE PROCESSING

EUROPEAN UNION ROHS DIRECTIVE, 2002/95/EC

DIMENSIONS ARE IN INCHES

UNLESS OTHERWISE NOTED

TOLERANCES ARE:

ONE PLACE DECIMALS ±.1

THREE PLACE DECIMALS ±.010

TWO PLACE DECIMALS ±.02

FOUR PLACE DECIMALS ±.0050

TITLE:

SEAF to SEAM CUSTOM

DWG NO:

SCF-154426-03-MA

SHEET 1 of 1

TOP LAYER

BOTTOM LAYER

STIFFENERS

SIDE VIEW

ALL LAYERS

PINOUT TABLE

J1 SIGNAL J2

SEE VITA 57 CHART

LAYER STACKUP

NOTES:

1. CRITICAL DIMENSION

2. SPECIFICATIONS

3. DIMENSIONS:

4. TOLERANCES

5. FR4 Tg:

6. FLAME CLASS

7. MOT:

8. MARKINGS:

9. BOW AND TWIST:

10. PLATING:

11. COVERFILM:

12. FINISH:

13. SILKSCREEN:

14. ELECTRICAL TEST:

15. IMPEDANCE

16. LAYER STACKUP

17. INSPECTION:

18. MIN TRACE/SPACE:

19. PACKAGING:

REPRESENTS A CRITICAL DIMENSION.

UNLESS OTHERWISE SPECIFIED, FABRICATION OF THIS FLEX SHALL BE IN CONFORMANCE WITH THE FOLLOWING SPECIFICATIONS:

IPC-6013 CLASS 2.

IPC-A-610 CLASS 2.

INCHES:

UNLESS OTHERWISE SPECIFIED:

DATUM HOLE TO BOARD EDGE LOCATIONS ±0.010, UNLESS OTHERWISE SPECIFIED.

DATUM HOLE TO V-SCORE LOCATIONS ±0.010, UNLESS OTHERWISE SPECIFIED.

DATUM HOLE TO DRILLED HOLE LOCATIONS ±0.004, UNLESS OTHERWISE SPECIFIED.

MINIMUM GLASS TRANSITION TEMPERATURE (Tg) OF 175° C.

UL 94V-0 AND MUST MEET REQUIREMENTS OF UL 796.

MANUFACTURER MUST BE UL RECOGNIZED TO PRODUCE THIS PRODUCT SUCH THAT IT MEETS 130°C MAXIMUM OPERATING TEMPERATURE (MOT).

SEE SILKSCREEN.

IN ACCORDANCE WITH IPC 6013 CLASS 2.

PER IPC CLASS 2.

TO BE IN ACCORDANCE WITH IPC 6013 CLASS 2.

8 MICROINCHES OF IMMERSION SILVER MIN.

WHITE NONCONDUCTIVE INK.

NO INK TO APPEAR ON EXPOSED COPPER SUCH AS PLATED THROUGH HOLE PADS AND SURFACE MOUNT LANDS. INK ON SOLDER MASK COVERED PADS IS PERMISSIBLE.

CLIPPING OF SILKSCREEN (0.008 MAX FROM PADS) IS PERMITTED IF REQUIRED.

ALL ASSEMBLIES TO BE 100% ELECTRICAL TESTED.

ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.

TESTED TO STANDARD NA-FL-WI-2003-M.

BOARDS ARE "BUILT TO STACK". IMPEDANCE REQUIREMENTS FOR EACH LAYER ARE SHOWN BELOW FOR REFERENCE.

| ARTWORK NAME      | TYPE      | COPPER THICKNESS | WIDTH  | IMPEDANCE    |
|-------------------|-----------|------------------|--------|--------------|
| TOP SIDE          |           |                  |        |              |
| MSK-NS.GBR        | COVERFILM | NA               | NA     | NA           |
| LAYER_1_9G_AW.GBR | SIGNAL    | 0.5 OZ           | NA     | NA           |
| LAYER_2_9G_AW.GBR | SIGNAL    | 0.5 OZ           | 0.0050 | 100 OHM (DP) |
| LAYER_3_9G_AW.GBR | GROUND    | 0.5 OZ           | NA     | NA           |
| LAYER_4_9G_AW.GBR | SIGNAL    | 0.5 OZ           | 0.0032 | 100 OHM (DP) |
| LAYER_5_9G_AW.GBR | GROUND    | 0.5 OZ           | NA     | NA           |
| LAYER_6_9G_AW.GBR | SIGNAL    | 0.5 OZ           | 0.0032 | 100 OHM (DP) |
| LAYER_7_9G_AW.GBR | GROUND    | 0.5 OZ           | NA     | NA           |
| LAYER_8_9G_AW.GBR | SIGNAL    | 0.5 OZ           | 0.0050 | 100 OHM (DP) |
| LAYER_9_9G_AW.GBR | SIGNAL    | 0.5 OZ           | NA     | NA           |
| MSK-FS.GBR        | COVERFILM | NA               | NA     | NA           |
| BOTTOM SIDE       |           |                  |        |              |

ALL CRITICAL FEATURES TO BE INSPECTED BEFORE SHIPMENT.

MIN TRACE = .0032 +/- .0005, MIN SPACE = .0030 +/- .0005

ALL ASSEMBLIES TO BE PACKAGED TO PACKAGING STANDARDS NA-FL-WI-1026-M.

ALL ASSEMBLIES TO BE DELIVERED FLAT.

FFF NOTE

SAMTEC RESERVES THE RIGHT TO MODIFY ELEMENTS OF THIS PRODUCT AND DRAWING IN ORDER TO IMPROVE QUALITY AND MANUFACTURABILITY WITHOUT NOTIFICATION OR CUSTOMER APPROVAL AS LONG AS THE CHANGES BEING MADE DO NOT AFFECT ITS FORM, FIT, OR FUNCTION.

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TABLE 1

HOLE CHART FOR SINGLE CIRCUIT (NOT STIFFENERS)

ALL UNITS ARE IN INCHES

| SYMBOL | DRILL SIZE | COUNT | PLATED / NON | TOLERANCE |
|--------|------------|-------|--------------|-----------|
| X      | 0.0079     | 846   | PLATED       | +/- .003  |
| *      | 0.028      | 04    | NON-PLATED   | +/- .002  |
| +      | 0.0512     | 04    | NON-PLATED   | +/- .002  |

BOM

| ITEM NO. | PART NUMBER          | QUANTITY |
|----------|----------------------|----------|
| 1        | ASP-134486-01        | 1        |
| 2        | ASP-134488-01        | 1        |
| 3        | STF-01-FS            | 1        |
| 4        | STF-02-NS            | 1        |
| 5        | SUB-SCF-154426-03-MA | 1        |

REFERENCE CUSTOM PRODUCT TRAVELER FOR PROCESS STEPS.

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MADE BY: TIM D 06 21 2010

SCF-154426-03-MA

SHEET 1 OF 1