

NOTES:

1. MATERIALS AND FINISHES (IN MICRO-INCHES):

- BODY = BRASS (C3604) FOR INTERFACE, ZINC DIECAST (ZAMAK #3 PER ASTM-B86) FOR SOLDER.
- CONTACT = COPPER ALLOY, GOLD PL. 6 MIN MATING AREA. THICK OVER NICKEL PL. 50 MIN. 20~80 MATTE TIN ON SOLDER TAIL.
- INSULATOR = LCP, COLOR: NATURAL.
- HOUSING = PA 6T, COLOR & KEYING PER TABLE

2. ELECTRICAL:

- A. IMPEDANCE: 100 OHM NOMINAL
- B. FREQUENCY RANGE: DC - 2 GHz
- C. RETURN LOSS: -20 dB MIN. (DC-1 GHz)  
-17 dB MIN. (DC-2 GHz)
- D. INSERTION LOSS: -0.3 dB MAX. (DC-2 GHz)
- E. SKEW (BETWEEN SIGNAL CONTACTS) 5 PSEC. MAX.
- F. CROSSTALK: -30 dB MAX.
- G. CENTER CONTACT RESISTANCE: 10 mΩ MAX.
- H. OUTER CONTACT RESISTANCE: 7.5 mΩ MAX.
- I. D.W.V.: 500 VRMS, MIN.

3. MECHANICAL:

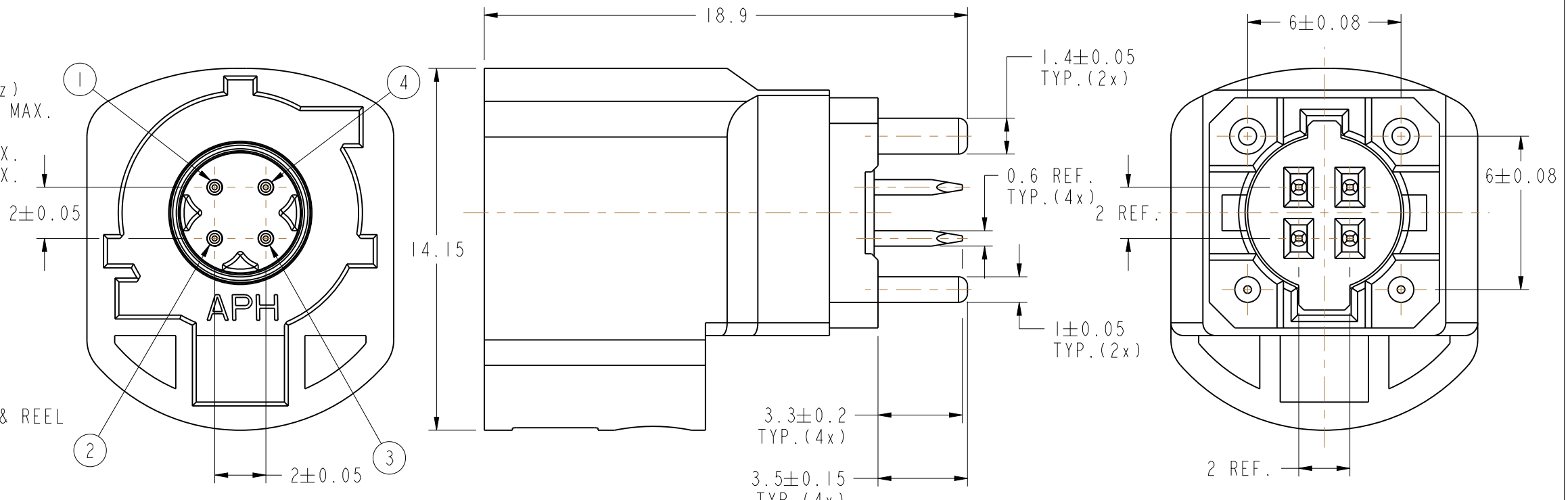
- A. DURABILITY: 25 CYCLES MIN.
- B. TEMPERATURE RANGE: -40° C TO 105° C
- C. HOUSING RETENTION: 110N MIN. AXIAL

4. ORDER P/N SYSTEM AND PACKAGING:

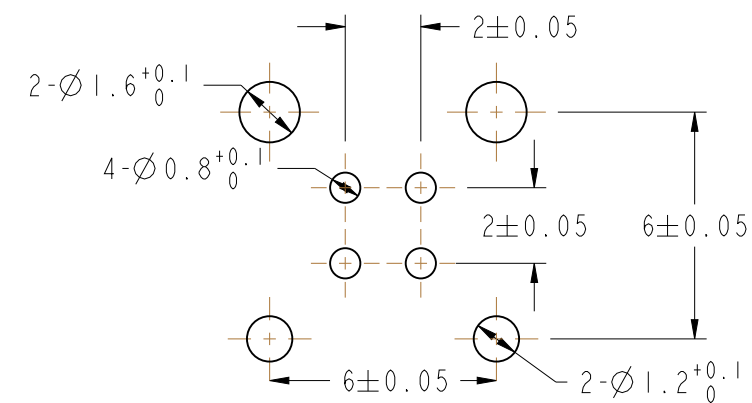
HSD-SXSP-PCB-2X

- A=PACKAGING IN TAPE & REEL
- B=PACKAGING IN TRAY
- C=SINGLE PACK

A. PACKAGING MARKING: AMPHENOL RF  
HSD-SXSP-PCB-2X  
DATE CODE



**CONFIGURATION CONTROL:**  
NO CHANGES PERMITTED TO DRAWING WITHOUT  
PPAP QUALIFIED CUSTOMER APPROVAL



SCALE 5.000

**RECOMMENDED PCB LAYOUT**

**CUSTOMER OUTLINE DRAWING**

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

| CODING | DRAWING NUMBER  | COLOR          | RAL NO. |
|--------|-----------------|----------------|---------|
| G      | HSD-SGSP-PCB-2X | BLUE GREY      | 7031    |
| H      | HSD-SHSP-PCB-2X | HEATHER VIOLET | 4003    |
| J      | HSD-SJSP-PCB-2X | BEIGE          | 1001    |
| K      | HSD-SKSP-PCB-2X | CURRY          | 1027    |
| L      | HSD-SLSP-PCB-2X | YELLOW GREEN   | 6018    |
| M      | HSD-SMSP-PCB-2X | PASTEL ORANGE  | 2003    |
| O      | HSD-SOSP-PCB-2X | LIGHT GREEN    | 6027    |

|   |                      |                        |                   |                                |   |
|---|----------------------|------------------------|-------------------|--------------------------------|---|
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:<br><0.5mm ±0.05mm    0.5 - 6mm ±0.1mm    6 - 30mm ±0.2mm    30 - 120mm ±0.3mm    ANGLES ±1°  | MATERIAL             | DRAWN<br>J. YANG       | DATE<br>01-Feb-12 | TITLE<br>HSD VERTICAL PLUG PCB | Amphenol RF<br>www.amphenolrf.com   |
|   | REFERENCE AND ASCA:  | ENGINEER<br>J. YANG    | DATE<br>01-Feb-12 |                                |   |
| NOTICE - These drawings, specifications, or other data (1) are, and remain the property of Amphenol corp. (2) must be returned upon request; and (3) are confidential and not to be disclosed to any person other than those to whom they are given by Amphenol Corp. the furnishing of these drawings, specifications, or other data by Amphenol Corp., or to any other person for any purpose is not to be regarded by implication or otherwise in any manner licensing, granting rights to permitting such holder or any other person to manufacture, use or sell any product, process or design, patented or otherwise, that may in any way be related to or disclosed by said drawings, specifications, or other data. | CONFIGURATION LEVEL: | APPROVED<br>K. CAPOZZI | DATE<br>3/1/13    | SCALE: 3.0:1.0                 | SHEET 1 OF 2  |
|   | FINISH               | CAD FILE               | DWG SIZE<br>B     | REV<br>A                       | DRAWING NO. HSD-SXSP-PCB-2X<br>ITEM NO. HSD-SXSP-PCB-2X<br>PART NO. HSD-SXSP-PCB-2X |

THIRD ANGLE PROJ.

REVISIONS

| REV | DESCRIPTION    | DATE   | ECO   | APPR |
|-----|----------------|--------|-------|------|
| A   | RELEASE TO MFG | 3/1/13 | 49363 | JY   |