



1. FPC NOT MATING CONDITION BANNED CLOSURE
2. PART NO. LEGEND:

**X05A20 H XX X**  
 ① ② ③ ④

- ① Series Name : X05A20=0.5 mm Pitch(H=2.0mm)
- ② Assembly style : L.Low Contact SMT Type U.Upper Contact SMT Type  
D.Double-Face Contact SMT Type H.Back-flip Double-Face Contact SMT Type
- ③ Number of terminals : XX=04-60PIN
- ④ Plating : G.Gold Flash Over Nickel T.Tin Over Nickel

3. PERFORMANCE:
- 3.1: CURRENT RATING: 0.5A/PIN.
  - 3.2: VOLTAGE RATING: 50V (AC/DC).
  - 3.3: CONTACT RESISTANCE: INITIAL VALUE 30mOHM Max,
  - 3.4: INSULATION RESISTANCE: 500MOHM Min.
  - 3.5: DIELECTRIC WITHSTANDING VOLTAGE: 250V AC FOR 1MINUTE
  - 3.6: DURABILITY: 20 TIMES Min.
  - 3.7: OPERATING TEMPERATURE: -40°C ~ +85°C  
OPERATING HUMIDITY RANGE: 20% TO 85%

| Pin No. | P/N | DIM A | DIM B | DIM C | DIM D | DIM E | DIM F | DIM G |
|---------|-----|-------|-------|-------|-------|-------|-------|-------|
| 04      |     | 5.50  | 2.55  | 1.50  | 6.10  | 4.10  | 3.90  | 7.10  |
| 05      |     | 6.00  | 3.05  | 2.00  | 6.60  | 4.60  | 4.40  | 7.60  |
| 06      |     | 6.50  | 3.55  | 2.50  | 7.10  | 5.10  | 4.90  | 8.10  |
| 08      |     | 7.50  | 4.55  | 3.50  | 8.10  | 6.10  | 5.90  | 9.10  |
| 09      |     | 8.00  | 5.05  | 4.00  | 8.60  | 6.60  | 6.40  | 9.60  |
| 10      |     | 8.50  | 5.55  | 4.50  | 9.10  | 7.10  | 6.90  | 10.10 |
| 12      |     | 9.50  | 6.55  | 5.50  | 10.10 | 8.10  | 7.90  | 11.10 |
| 14      |     | 10.50 | 7.55  | 6.50  | 11.10 | 9.10  | 8.90  | 12.10 |
| 15      |     | 11.00 | 8.05  | 7.00  | 11.60 | 9.60  | 9.40  | 12.60 |
| 16      |     | 11.50 | 8.55  | 7.50  | 12.10 | 10.10 | 9.90  | 13.10 |
| 18      |     | 12.50 | 9.55  | 8.50  | 13.10 | 11.10 | 10.90 | 14.10 |
| 20      |     | 13.50 | 10.55 | 9.50  | 14.10 | 12.10 | 11.90 | 15.10 |
| 22      |     | 14.50 | 11.55 | 10.50 | 15.10 | 13.10 | 12.90 | 16.10 |
| 24      |     | 15.50 | 12.55 | 11.50 | 16.10 | 14.10 | 13.90 | 17.10 |
| 26      |     | 16.50 | 13.55 | 12.50 | 17.10 | 15.10 | 14.90 | 18.10 |
| 28      |     | 17.50 | 14.55 | 13.50 | 18.10 | 16.10 | 15.90 | 19.10 |
| 30      |     | 18.50 | 15.55 | 14.50 | 19.10 | 17.10 | 16.90 | 20.10 |
| 32      |     | 19.50 | 16.55 | 15.50 | 20.10 | 18.10 | 17.90 | 21.10 |
| 34      |     | 20.50 | 17.55 | 16.50 | 21.10 | 19.10 | 18.90 | 22.10 |
| 35      |     | 21.00 | 18.05 | 17.00 | 21.60 | 19.60 | 19.40 | 22.60 |
| 36      |     | 21.50 | 18.55 | 17.50 | 22.10 | 20.10 | 19.90 | 23.10 |
| 38      |     | 22.50 | 19.55 | 18.50 | 23.10 | 21.10 | 20.90 | 24.10 |
| 40      |     | 23.50 | 20.55 | 19.50 | 24.10 | 22.10 | 21.90 | 25.10 |
| 41      |     | 24.00 | 21.05 | 20.00 | 24.60 | 22.60 | 22.40 | 25.60 |
| 42      |     | 24.50 | 21.55 | 20.50 | 25.10 | 23.10 | 22.90 | 26.10 |
| 45      |     | 26.00 | 23.05 | 22.00 | 26.60 | 24.60 | 24.40 | 27.60 |
| 50      |     | 28.50 | 25.55 | 24.50 | 29.10 | 27.10 | 26.90 | 30.10 |
| 51      |     | 29.00 | 26.05 | 25.00 | 29.60 | 27.60 | 27.40 | 30.60 |
| 52      |     | 29.50 | 26.55 | 25.50 | 30.10 | 28.10 | 27.90 | 31.10 |
| 54      |     | 30.50 | 27.55 | 26.50 | 31.10 | 29.10 | 28.90 | 32.10 |
| 55      |     | 31.00 | 28.05 | 27.00 | 31.60 | 29.60 | 29.40 | 32.60 |
| 58      |     | 32.50 | 29.55 | 28.50 | 33.10 | 31.10 | 30.90 | 34.10 |
| 60      |     | 33.50 | 30.55 | 29.50 | 34.10 | 32.10 | 31.90 | 35.10 |

|    |            |                       |                            |           |
|----|------------|-----------------------|----------------------------|-----------|
| 4  | STATOR     | BRASS                 |                            | 2         |
| 3  | TERMINAL   | PHOSPHOR BRONZE       |                            | POSITIONS |
| 2  | COVER      | THERMOPLASTIC UL94V-0 | BLACK                      | 1         |
| 1  | HOUSING    | THERMOPLASTIC UL94V-0 | NATURAL                    | 1         |
| NO | COMPONENTS | MATERIALS             | FINISH/COLOR SPECIFICATION | QUANTITY  |

| MARK | DESCRIPTION | DATE | REVISED | APPROVED | UNSPECIFIED TOLERANCES | DSND | DATE | SCALE: N/A | MODEL TYPE:<br>FPC CONNECTOR |
|------|-------------|------|---------|----------|------------------------|------|------|------------|------------------------------|
| Δ X  |             |      |         |          | ANGLAR ±5°             |      |      | VIEW:      | PART NO.:                    |
| Δ X  |             |      |         |          | L ≤ 4 ±0.2             |      |      | UNIT: mm   | DWG NO.:                     |
| Δ X  |             |      |         |          | 4 < L ≤ 16 ±0.3        | CHKD |      | SIZE: A4   | X05A20HXXX                   |
|      |             |      |         |          | 16 < L ≤ 63 ±0.4       | APPD |      |            | WEIGHT                       |
|      |             |      |         |          | L > 63 ±0.5            |      |      |            | 1.0g                         |
|      |             |      |         |          |                        |      |      |            | SHEET                        |
|      |             |      |         |          |                        |      |      |            | 1/1                          |
|      |             |      |         |          |                        |      |      |            | REVISION                     |
|      |             |      |         |          |                        |      |      |            | A0                           |

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