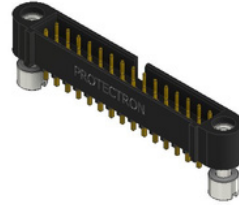




**DESCRIPTION** : 2.0mm PITCH MALE CONNECTOR, DUAL ROW  
STRAIGHT, WITH SCREW LOCKING, RoHS

**PART No:** P80A1-XX-A97-J

RoHS



## PHYSICAL DATA

### MATERIAL

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| INSULATOR BODY  | : PPS (POLYPHENYLENE SULFIDE FIBREGLASS FILLED THERMOPLASTIC) |
| FLAMMABILITY    | : UL94V-0                                                     |
| CONTACT AREA    | : COPPER ALLOY, NICKEL + 1 $\mu$ GOLD PLATED                  |
| CONTACT TAIL    | : COPPER ALLOY, NICKEL + 0.1 $\mu$ GOLD PLATED                |
| FIXING HARDWARE | : JACKSCREW (STAINLESS STEEL)                                 |

### ELECTRICAL DATA

|                       |                                  |
|-----------------------|----------------------------------|
| CONTACTS              | : 3A MAX. @25°C, 2.2A MAX. @85°C |
| WORKING VOLTAGE       | : TESTED AT 800V DC              |
| PROOF VOLTAGE         | : TESTED AT 1200V DC             |
| CONTACT RESISTANCE    | : 10m $\Omega$ MAX               |
| INSULATION RESISTANCE | : 1000M $\Omega$ MIN             |

### MECHANICAL DATA

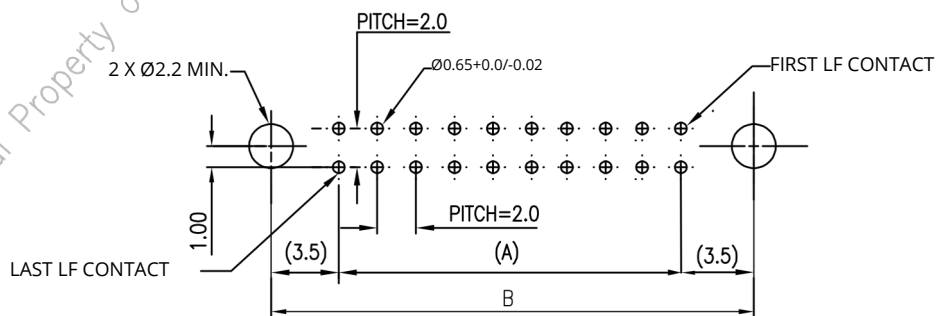
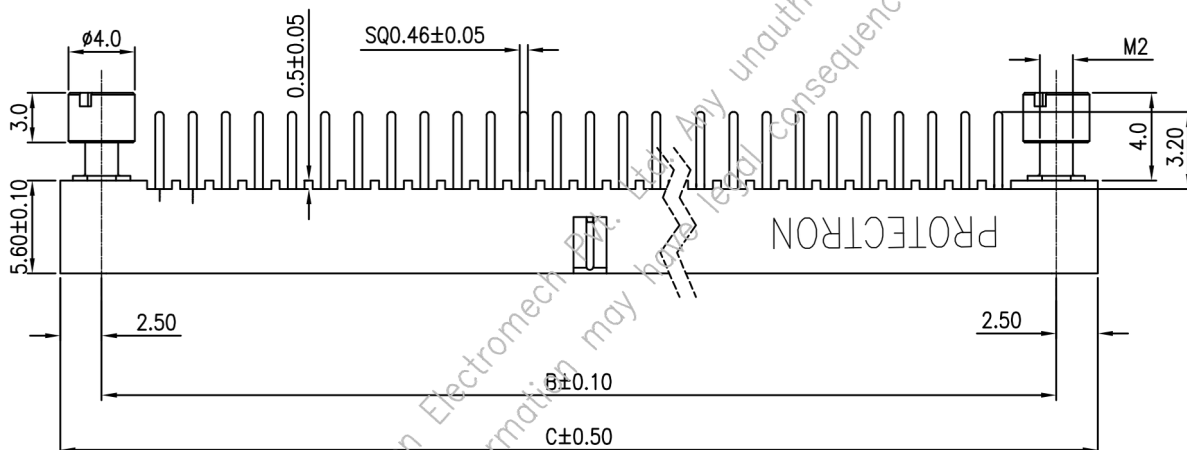
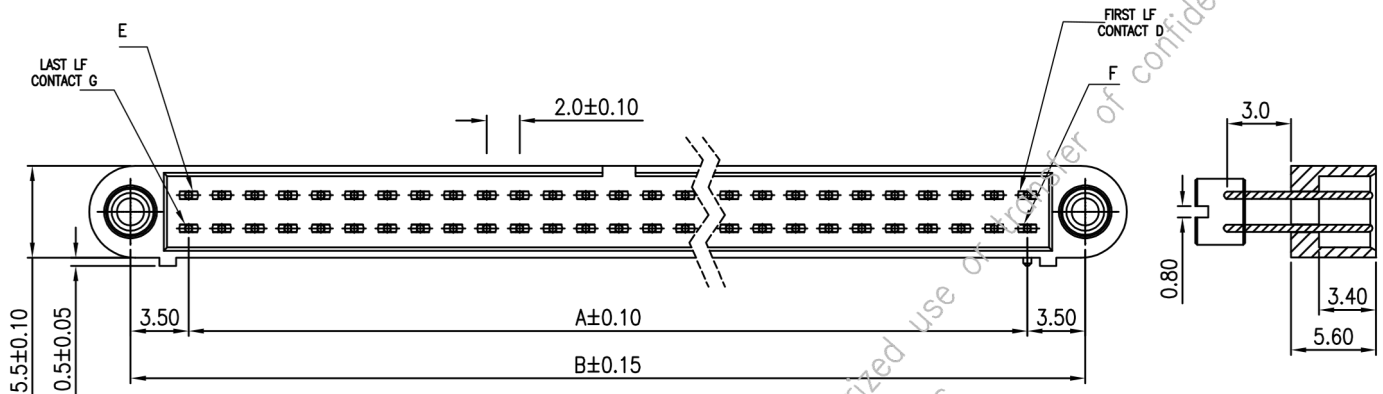
|                       |                    |
|-----------------------|--------------------|
| MECHANICAL LIFE CYCLE | : 500 CYCLES MIN.  |
| RETENTION FORCE       | : 0.2N MIN/CONTACT |
| INSERTION FORCE       | : 2N MAX/CONTACT   |

### ENVIRONMENTAL DATA

|                    |                                                                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEMPERATURE RANGE  | : -60°C TO +260°C                                                                                                                                                                            |
| TEMPERATURE RANGE  | : 0.75mm, 10g RMS 5 HOURS LONG RANDOM WITH SUPERIMPOSED SINUSOID.NO<br>INTERMITTENCE MEASURED WHEN USING AN H.S.L.I( HIGH SPEED LOGIC INTERRUPT)<br>DETECTOR WITH A TRIP THRESHOLD OF 2nsec. |
| SHOCK SEVERITY     | : 100g FOR 6msec                                                                                                                                                                             |
| SOLVENT RESISTANCE | : HcFc 141 bMGX (ATOCHM) SOLVENT                                                                                                                                                             |
| SALT SPRAY TEST    | : 96 HOURS                                                                                                                                                                                   |
| HUMIDITY TEST      | : 56 DAYS @ 90% HUMIDITY                                                                                                                                                                     |

**DESCRIPTION** : 2.0mm PITCH MALE CONNECTOR, DUAL ROW  
STRAIGHT, WITH SCREW LOCKING, RoHS

**PART No:** P80A1-XX-A97-J



**RECOMMENDED PCB LAYOUT**  
(TOLERANCE  $\pm 0.05$ )

**DESCRIPTION :** 2.0mm PITCH MALE CONNECTOR, DUAL ROW  
 STRAIGHT, WITH SCREW LOCKING, RoHS

**PART No:** P80A1-XX-A97-J

| NO. OF CONTACT | DIMENSIONS |    |    |
|----------------|------------|----|----|
|                | A          | B  | C  |
| 4              | 2          | 9  | 14 |
| 6              | 4          | 11 | 16 |
| 8              | 6          | 13 | 18 |
| 10             | 8          | 15 | 20 |
| 12             | 10         | 17 | 22 |
| 14             | 12         | 19 | 24 |
| 16             | 14         | 21 | 26 |
| 18             | 16         | 23 | 28 |
| 20             | 18         | 25 | 30 |
| 22             | 20         | 27 | 32 |
| 24             | 22         | 29 | 34 |
| 26             | 24         | 31 | 36 |
| 28             | 26         | 33 | 38 |
| 30             | 28         | 35 | 40 |
| 32             | 30         | 37 | 42 |
| 34             | 32         | 39 | 44 |
| 36             | 34         | 41 | 46 |
| 38             | 36         | 43 | 48 |
| 40             | 38         | 45 | 50 |
| 42             | 40         | 47 | 52 |
| 44             | 42         | 49 | 54 |
| 46             | 44         | 51 | 56 |
| 48             | 46         | 53 | 58 |
| 50             | 48         | 55 | 60 |
| 52             | 50         | 57 | 62 |
| 54             | 52         | 59 | 64 |
| 56             | 54         | 61 | 66 |
| 58             | 56         | 63 | 68 |
| 60             | 58         | 65 | 70 |

| NO. OF CONTACT | LF CONTACTS REFERENCE MARK NUMBER |    |    |    |
|----------------|-----------------------------------|----|----|----|
|                | D                                 | E  | F  | G  |
| 4              | 1                                 | 2  | 3  | 4  |
| 6              | 1                                 | 3  | 4  | 6  |
| 8              | 1                                 | 4  | 5  | 8  |
| 10             | 1                                 | 5  | 6  | 10 |
| 12             | 1                                 | 6  | 7  | 12 |
| 14             | 1                                 | 7  | 8  | 14 |
| 16             | 1                                 | 8  | 9  | 16 |
| 18             | 1                                 | 9  | 10 | 18 |
| 20             | 1                                 | 10 | 11 | 20 |
| 22             | 1                                 | 11 | 12 | 22 |
| 24             | 1                                 | 12 | 13 | 24 |
| 26             | 1                                 | 13 | 14 | 26 |
| 28             | 1                                 | 14 | 15 | 28 |
| 30             | 1                                 | 15 | 16 | 30 |
| 32             | 1                                 | 16 | 17 | 32 |
| 34             | 1                                 | 17 | 18 | 34 |
| 36             | 1                                 | 18 | 19 | 36 |
| 38             | 1                                 | 19 | 20 | 38 |
| 40             | 1                                 | 20 | 21 | 40 |
| 42             | 1                                 | 21 | 22 | 42 |
| 44             | 1                                 | 22 | 23 | 44 |
| 46             | 1                                 | 23 | 24 | 46 |
| 48             | 1                                 | 24 | 25 | 48 |
| 50             | 1                                 | 25 | 26 | 50 |
| 52             | 1                                 | 26 | 27 | 52 |
| 54             | 1                                 | 27 | 28 | 54 |
| 56             | 1                                 | 28 | 29 | 56 |
| 58             | 1                                 | 29 | 30 | 58 |
| 60             | 1                                 | 30 | 31 | 60 |

**MATES WITH**  
**P808FC-XX-1A**

**ORDERING INFORMATION**  
**P80A1-XX-A97-J**

NO OF CONTACTS  
 (04-60)