



| REVISIONS | | | | |
|-----------|-----------------------------|-------------|----------|--|
| LTR | DESCRIPTION | DATE | APPROVED | |
| A | INITIAL RELEASE SEE DO 4993 | CP 10-07-02 | A.J. | |
| B | SEE DO 5044 | CP 12-10-02 | A.J. | |
| C | SEE DO 5063 | CP 01-06-03 | A.J. | |
| D | SEE DO 5165 | CP 05-20-03 | A.J. | |

PATENT PENDING

CA-XXSCA2-XF-42-X

- NO. OF CONTACT POSITIONS**
40
80
- SINGLE CONNECTOR ATTACHMENT**
- TAIL LENGTH (DIM 'H')**
BLANK = 3.43 [135]
2 = 3.79 [149]
3 = 4.60 [181]
- PLATING**
F = CONTACT :
MATING AREA : .76um [30uin] GOLD
TAIL AREA : 3.81um [150uin] TIN/LEAD
UNDERPLATE : 1.27um [50uin] NICKEL
CLIP : 3.81um [150uin] TIN/LEAD OVER
1.27um [50uin] NICKEL
- TAIL CONFIGURATION**
42 = EXTENDED HEIGHT, PRESS FIT
- MOUNTING HOLE STYLE**
2 = 2-56 UNC 2B THREADED HOLE
4 = 4-40 UNC 2B THREADED HOLE

- SPECIFICATIONS:**
CONFORMS TO SFF-8451 SPECIFICATIONS FOR SCA-2 UNSHIELDED CONNECTORS
- MECHANICAL**
- MATING FORCE : 90g MAX. PER CONTACT
 - UNMATING FORCE : 15g MIN. PER CONTACT
 - DURABILITY : 500 CYCLES MINIMUM
 - CONTACT MATERIAL : PHOSPHOR BRONZE
 - INSULATOR MATERIAL : HIGH TEMPERATURE THERMOPLASTIC BLACK, UL94V-0
 - CLIP MATERIAL : BRASS
 - CONTACT PLATING:
MATING AREA : 0.00076 [30uin] GOLD
TAIL AREA : 0.0038 [150uin] TIN/LEAD
UNDERPLATE : 0.0013 [50uin] NICKEL
 - CLIP PLATING : 0.0038 [150uin] TIN/LEAD OVER
0.0013 [50uin] NICKEL
- ENVIRONMENTAL**
- TEMPERATURE RANGE : -55°C TO 105°C
- ELECTRICAL**
- VOLTAGE RATING : 250V AC
 - DIELECTRIC WITHSTANDING VOLTAGE : 500V DC FOR 1 MIN.
 - INSULATOR RESISTANCE : >1000 MEGOHMS @ 250 Vrms
 - CONTACT RESISTANCE : <35 MILLIOHMS
 - CURRENT RATING : 1 AMP

3. DIMENSIONS AND GEO. TOLERANCES PER SCA-2 SPECIFICATION RELEASED BY SFF COMMITTEE. IN CASE OF ROUND OFF DISCREPANCIES IN DUAL DIMENSIONS, THE METRIC DIMENSIONS IN THE CURRENT REVISION OF SFF-8451 SPECIFICATION SHOULD BE USED.
- ② (80 POS. CONNECTOR) THE FOLLOWING CONTACTS: 1,36,37,38,39,40,41, 42,43,45,46,75,76,77,78,79,80 ARE LONG AND FIRST TO MATE. REMAINING CONTACTS ARE SHORT AND LAST TO MATE. SEE SECTION A-A
- ① (40 POS. CONNECTOR) THE FOLLOWING CONTACTS: 21, 22, 23, 26, 29, 32, 35-40 ARE LONG AND FIRST TO MATE. REMAINING CONTACTS ARE SHORT AND LAST TO MATE. SEE SECTION A-A

NOTES: UNLESS OTHERWISE SPECIFIED
TABULATION

RECOMMENDED PCB FOOTPRINT (COMPONENT SIDE)

| NO. OF POSITIONS | A | | B | | C | | D | | E | | F | | G | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in |
| 40 | 43.60 | 1.717 | 41.40 | 1.630 | 20.10 | 0.791 | 29.67 | 1.168 | 26.03 | 1.025 | 24.13 | 0.950 | 34.11 | 1.343 |
| 80 | 69.00 | 2.717 | 66.80 | 2.630 | 32.80 | 1.291 | 55.07 | 2.168 | 51.43 | 2.025 | 49.53 | 1.950 | 59.51 | 2.343 |

DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE DECIMALS ANGLES X ±.25 ±1° .XX ±.13

DIMENSIONS IN BRACKETS [XXX] ARE IN INCHES TOLERANCES ARE: DECIMALS ANGLES .XX ±.010 ±1° .XXX ±.005

DO NOT SCALE DRAWING

| APPROVALS | DATE |
|-------------------|---------|
| DRAWN CUONG P. | 10-7-02 |
| CHECKED A. JOCHEN | 10-7-02 |

CIRCUIT ASSEMBLY CORP.
18 THOMAS ST., IRVINE, CALIFORNIA 92618-2777

SOCKET ASSEMBLY - SCA-2
EXT. HEIGHT, PRESS FIT
WITH THREADED MTG HOLE

| | | | |
|--------|----------------------|--------------------|--------|
| SIZE C | CODE IDENT NO. 52072 | DRAWING NO. 610291 | REV. D |
|--------|----------------------|--------------------|--------|

SCALE: 4:1 SHEET 1 OF 1