

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE SEE DO 4741	AJ 01-17-02	L.F.	
B	SEE DO 6970	CP 05-25-10	A.J.	
C	SEE DO 6986	CP 07-01-10	A.J.	
D	SEE DO 7155	CP 10-21-11	I.M.	
E	SEE DO 7156	CP 10-24-11	I.M.	
F	SEE DO 7162	CP 11-07-11	I.M.	
G	SEE DO 7163	CP 11-22-11	I.M.	
H	SEE DO 7168	CP 12-22-11	R.L.	
J	SEE DO 7236	CP 09-13-13	I.M.	
K	SEE DO 7265	CP 05-19-14	I.M.	
L	SEE DO 7335	CP 07-30-15	I.M.	

### CA-XXSCA2-F-31-X

**NO. OF CONTACT POSITIONS:** 40  
80

**SINGLE CONNECTOR ATTACHMENT:**

**PLATING:**  
 F= MATING AREA : .76µm [30µin] GOLD  
 TAIL AREA : 3.81µm [150µin] TIN  
 UNDERPLATE : 1.27µm [50µin] NICKEL  
 CLIP : 3.81µm [150µin] TIN OVER  
 1.27µm [50µin] NICKEL

**TAIL CONFIGURATION:**

**CLIP CONFIGURATION:** 5

(SEE CLIP TABULATION BELOW)

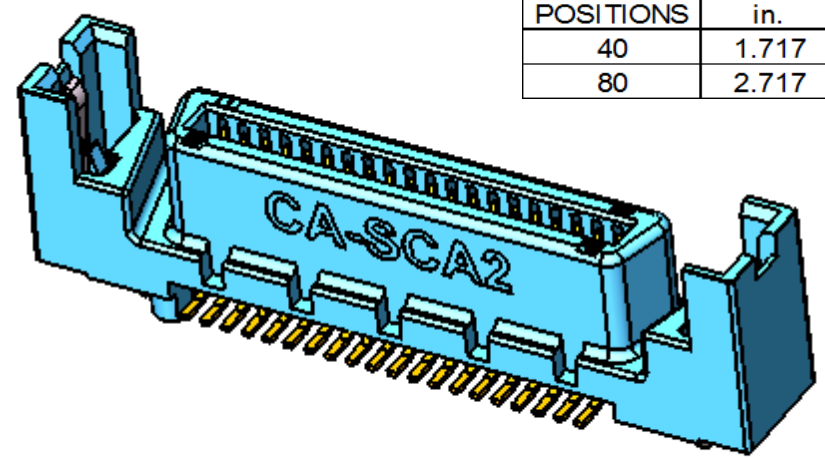
DASH NO.	DIM 'A1'		DIM 'B1'		DIM 'C1'	
	IN	MM	IN	MM	IN	MM
-2	0.113	2.88	0.112	2.84	0.110	2.80
-3	0.109	2.77	0.108	2.74	0.106	2.69
-4	0.104	2.64	0.103	2.62	0.101	2.57

CONFORMS TO SFF-8451 SPECIFICATIONS FOR SCA-2 UNSHIELDED CONNECTORS

- SPECIFICATIONS:**
- ENVIRONMENTAL**  
 - TEMPERATURE RANGE : -55°C TO +105°C
- ELECTRICAL**  
 - CURRENT RATING : 1 AMP  
 - VOLTAGE RATING : 250V AC  
 - DIELECTRIC WITHSTANDING VOLTAGE : 500 V AC FOR 1 MIN.  
 - INSULATOR RESISTANCE : >1000 MEGOHMS @ 250 Vrms  
 - CONTACT RESISTANCE : <35 MILLIOHMS
- 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, UL94V-0, BLACK  
 - CLIP MATERIAL : BRASS

### TABULATION

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



6. MARK "▼" DIMENSION MUST BE CONTROLLED.  
 MARK "X" IS DIMENSION No.  
 MARK "CPK" MUST BE CONTROLLED BY CPK.
5. CLIP CONFIGURATION (SEE TABULATION ON ORDERING NOMENCLATURE)
4. MEETS THE REQUIREMENTS OF DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 03 JANUARY 2011 ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT. (RoHS 2.0)
3. DIMENSIONS GEO. TOLERANCES PER SCA2 SPECIFICATION RELEASED BY THE SFF COMMITTEE. IN CASE OF ANY ROUND OFF DISCREPANCIES IN DUAL DIMENSIONS, THE METRIC DIMENSIONS IN THE CURRENT REVISION OF SFF-8451 SPECIFICATION SHOULD BE USED.
2. (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
1. (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
- NOTES: UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN MM TOLERANCES ARE:		APPROVALS	DATE
DECIMALS	ANGLES	A. JOCHEN	1-17-02
.X ± .25	± 1°	L. FONG	1-17-02
.XX ± .15			
DIMENSIONS IN BRACKETS [X.XX] ARE IN INCHES TOLERANCES ARE:			
DECIMALS	ANGLES		
.XX ± .010	± 1°		
.XXX ± .006			
DO NOT SCALE DRAWING			

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

**CONNECTOR ASSY-SCA2 SERIES**  
 REG. HT., SMT, RECEPTACLE - FIXED  
 "ROHS 2.0 COMPLIANT"

SIZE	CODE IDENT NO.	DRAWING NO.	REV.
C	52072	<b>610283</b>	L

SCALE: 4:1 SHEET 1 OF 1