



REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE SEE DO 3931	DL	3-17-00	A.J.
B	SEE DO 4033	LF	6-5-00	B.W.
C	SEE DO 4474	BW	5-15-01	L.F.
D	SEE DO 4497	N.T	5-25-01	B.W.
E	SEE DO 4521	N.T	6-08-01	B.W.
F	SEE DO 4533	B.W	6-15-01	L.F.
G	SEE DO 4558	C.P.	7-18-01	A.J.
H	SEE DO 4596	C.P.	8-23-01	A.J.
J	SEE DO 4762	C.P.	2-08-02	A.J.
K	SEE DO 4932	C.P.	8-07-02	A.J.
L	SEE DO 4989	C.P.	9-24-02	A.J.
M	SEE DO 5568	C.P.	8-12-04	A.J.
N	SEE DO 6404	C.P.	4-27-07	A.J.
P	SEE DO 7266	C.P.	5-28-14	I.M

CA-XXSCA2-XF-12X

- NO. OF CONTACT POSITIONS**
40
80
- SINGLE CONNECTOR ATTACHMENT**
- TAIL LENGTH (DIM 'H')**
BLANK = 3.18 [.125]
3 = 4.60 [.181]
- PLATING**
CONTACT :
F = MATING AREA : .76µm [30µin] GOLD
TAIL AREA : 3.81µm [150µin] TIN
UNDERPLATE : 1.27µm [50µin] NICKEL MIN.
CLIP : 3.81µm [150µin] TIN OVER
1.27µm [50µin] NICKEL MIN.
- TAIL CONFIGURATION**
EXTENDED HEIGHT, SOLDER
- LOGO OPTION**
BLANK = WITH LOGO
2 = NO LOGO

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 [30µin] GOLD
TAIL AREA : 0.0038 [150µin] TIN
UNDERPLATE : 0.0013 [50µin] NICKEL MIN.
CLIP PLATING : 0.0038 [150µin] TIN OVER
0.0013 [50µin] NICKEL MIN.
- ENVIRONMENTAL**
- TEMPERATURE RANGE : -55°C TO 105°C
- ELECTRICAL**
- VOLTAGE RATING : 250V AC
 - DIELECTRIC WITHSTANDING VOLTAGE : 500V DC FOR 1 MIN. >1000 MEGOHMS @ 250 Vrms
 - CONTACT RESISTANCE : <35 MILLIOHMS
 - CURRENT RATING : 1 AMP

- MARK "▼" DIMENSION MUST BE CONTROLLED. MARK "X" IS DIMENSION No.
- 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).
- 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.
- (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
- (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

RECOMMENDED PCB FOOTPRINT (COMPONENT SIDE)

NO. OF POSITIONS	A		B		C		D		E		F		G		J	
	in.	mm.	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	1.485	37.72
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	2.485	63.12

DIMENSIONS ARE IN MM TOLERANCES ARE:		APPROVALS	DATE
DECIMALS	ANGLES	D.LANG	3-17-02
.X ±.25	±1°	CHECKED	B.WATSON
.XX ±.15			3-17-02
DIMENSIONS IN BRACKETS [X.XXX] ARE IN INCHES TOLERANCES ARE:		THE INFORMATION AND DESIGN DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF CIRCUIT ASSEMBLY CORPORATION. CIRCUIT ASSEMBLY CORPORATION RESERVES ALL PATENT, PROPRIETARY, DESIGN, MANUFACTURING, REPRODUCTION, USE AND SALES RIGHTS THERETO, AND TO ANY ARTICLE DISCLOSED HEREIN EXCEPT TO THE EXTENT RIGHTS ARE EXPRESSLY GRANTED TO OTHERS. THE FOREGOING DOES NOT APPLY TO VENDOR PROPRIETARY RIGHTS.	
DECIMALS	ANGLES		
.XX ±.010	±1°		
.XXX ±.006			
DO NOT SCALE DRAWING			

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

SOCKET ASSEMBLY - SCA-2
EXT. HEIGHT, SOLDER 40 & 80 POS.
"ROHS 2.0"

SIZE	CODE IDENT NO.	DRAWING NO.	REV.
C	52072	610230	P

SCALE: 4:1 SHEET 1 OF 1