

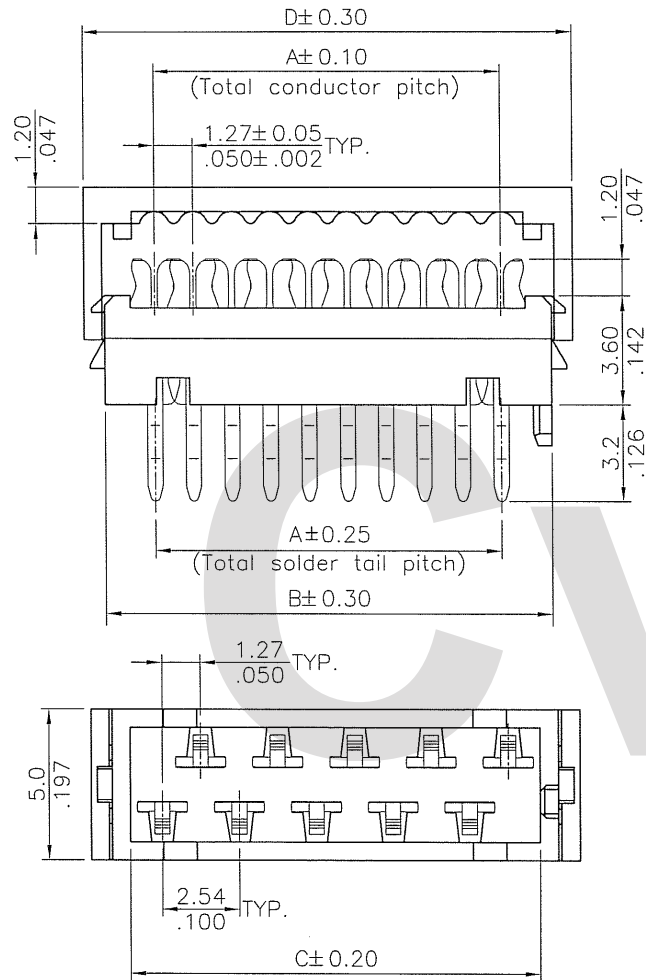
Material:

- * Insulation:
Base & Cover: Glass Filled Polyester UL 94V-0
- * Contact: Phosphor Bronze
- * Accommodated Cables:
1.27mm(.050") Center spacing Flat
Cable Insulator O.D.: 0.85 mm dia.
- * Construction: AWG #28 (7/0.127mm)

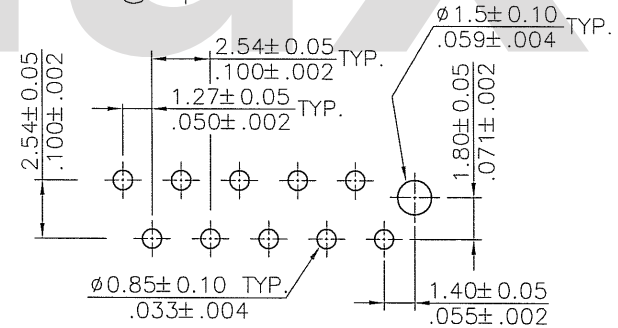
Ordering Code:

CA31 ** P 1 3 00
 ① ② ③ ④ ⑤ ⑥

- ① Series No.:
- ② No. of Circuits: 04 to 26
- ③ Contacts Type: P= Pin Header
- △ ④ Plating option:
1= Tin over Nickel plated
(Matte Tin plated)
- ⑤ Color: 3= Red
- ⑥ Option: 00= Standard

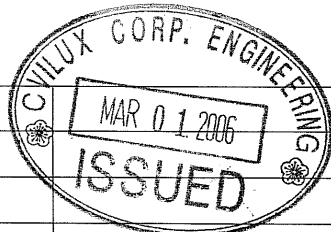



DIM.A= 1.27 x No. of Spaces
 DIM.B= DIM.A + 3.3
 DIM.C= DIM.A + 2.1
 DIM.D= DIM.A + 4.7
 *Available in 4 ~ 26 Circuits



Recommended P.C. Board Layout

RoHS Compliant



④				DATE	UNIT: mm / inch	TITLE: 1.27mm Pitch Male IDC DIP Type Connector	 瀚荃股份有限公司 CviLux Corporation	
③			DRAWN BY: Sandy 2/22/06'	TOLERANCE UNLESS OTHERWISE SPECIFIED .X ± 0.30/.012 .X' ± 1" .XX ± 0.20/.008 .X' ± .XXX ± 0.10/.004 .XX' ±	MATERIAL:	DRAWING NO. CA3101S3		PART NO. CA31**P1300
②			ENGINEER: Easley 2/24/06'		FINISH:	SCALE 4 / 1		SHEET 1 OF 1
①	Sandy	2/22/06'	ECN06023/ECR06007-0		CHECKED BY: [Signature]			
SYM	NAME	DATE	REVISIONS		APPROVED BY: [Signature]			

ENGINEERING DEPT.	PRODUCT SPECIFICATION 1.27mm Pitch Male & Female Connector	SPEC.NO.: SPCA009D PAGE: 1/4
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1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and below standards base on CviLux test procedure

2. APPLICABLE STANDARDS:

MIL - STD - 202 Methods for test of connectors for electronic equipment
MIL - STD - 1344 Test methods for electrical connectors

3. APPLICABLE SERIES NO.: **CA30/CA31/CA32 Series**

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

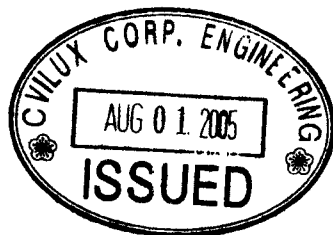
5. MATERIALS

See attached drawings

6. ACCOMMODATED CABLE AND P.C. BOARD:

6.1 Thickness: 1.6mm(.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : Alex APPROVED : Davin VERIFIED : Zisley



ENGINEERING DEPT.	PRODUCT SPECIFICATION 1.27mm Pitch Male & Female Connector	SPEC.NO.: SPCA009D
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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	
7.1	Rated current and voltage		1.5 A 230V AC/DC
7.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 10 mΩ
7.3	Dielectric strength	When applied AC 500 V 1 minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 100 V between adjacent terminal or ground	More than 1000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Pin retention force	Push pin form insulator base at speed 25±3 mm per minute	0.5 Kgf. min./ per contact
8.2	Mating Force	Insertion force at speed 25±3 mm per minute	500 gram max./per contact
8.3	Un-Mating Force	Withdrawing force at speed 25±3 mm per minute	100 gram min./per contact
8.4	Cable Retention Force	Cable withdrawing force at speed 25±3 mm per minute	1.0 kgf min./ Per contact

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Temperature rise	Then carried the rated current	30°C max.
9.2	Vibration	1.5 mm 10-55-10 HZ/minute each 2 hours for X,Y and Z directions	Appearance: No damage Discontinuity: 1micro second max.
9.3	Solderability	Tin-Lead Process Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5°C Lead-Free Process Soldering time: 3 ± 0.5 second Soldering pot: 260 ⁺⁰ ₋₅ °C	Minimum: 90% of immersed area



ENGINEERING DEPT.	PRODUCT SPECIFICATION 1.27mm Pitch Male & Female Connector	SPEC.NO.: SPCA009D
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	ITEM	TEST CONDITION	REQUIREMENT
9.4	Resistance to soldering heat	Tin-Lead Process (TMD or SMD Type) Soldering time: 5 ± 0.5 second Soldering pot: 260^{+0}_{-5} °C Lead-Free Process (SMD Type) Refer recommended IR temperature profile	No damage
9.5	Hand Soldering Method	Use a soldering iron that has a sufficient head capacity and high stability of temperature. The tip of the iron should be shaped so as not to touch the part body directly. Temperature : 300 ± 5 °C 3s	No damage
9.6	Heat aging	105 ± 2 °C , 96 hours	No damage
9.7	Humidity	40 ± 2 °C , 90-95% RH , 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 7-3
9.8	Temperature cycling	One cycle consists of : (1) -40^{+0} °C , 30 min. (2) Room ⁻³ temp. 10-15 min. (3) 105^{+3} °C , 30 min. (4) Room ⁰ temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial
9.9	Salt spray	Temperature: 35 ± 3 °C Solution: 5 ± 1 % Spray time: 48 ± 4 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

10. AMBIENT TEMPERATURE RANGE: -40 to + 105 °C