



Part Number
Key Word



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NEWS RELEASE

CONNECTOR SEARCH

CATALOG



SAMPLE

STOCK CHECK

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Product List

Product Name	IL-312-A30S-VF-A1
Series Name	IL-312 Series
Contact spacing (mm)	0.5
Number of contacts	30
Number of rows	2
Connector type	Receptacle
PCB mounting method	Soldering
Surface mounting flag	TRUE
PCB side connector styles	Straight
PCB mounted height (mm)	2.2
Finish of contact in connecting area	Gold
Material of insulator	Heat resisting plastics

Material of contact	Copper alloy
Existence of polarization key	None
Existence of location boss	None
Existence of hold-down	None
Existence of mount	None
Existence of hook-pin	None
Remarks	
Related Documents	 119Kbytes  167Kbytes
Pair	IL-312-A30P-VF-A1

Notice:

1. The values specified in this web site are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products.
For purchase, a product specification must be agreed upon.
2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
3. The products presented in this web site are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

- (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster evention equipment, etc.
- (ii) We may separately give you our support with a quality assurance program that
you specify, when you think of a use such as :

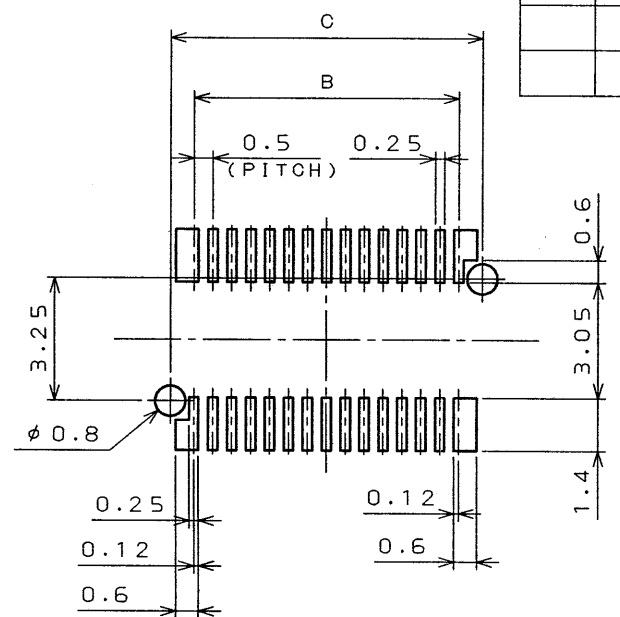
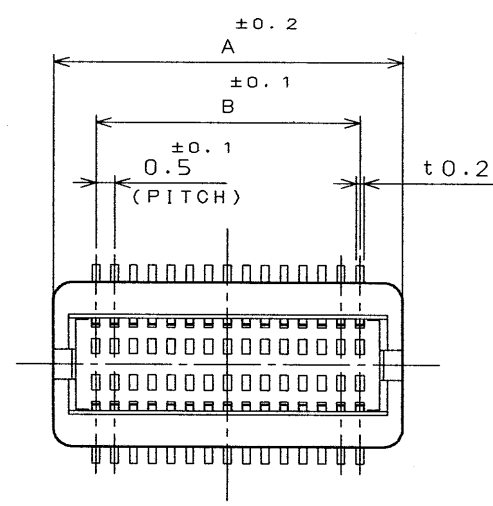
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

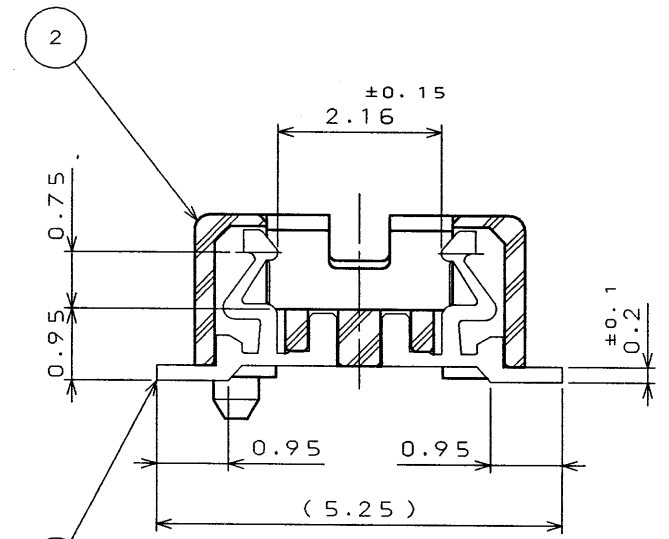
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc

SJ031443
(DRAWING NO.)

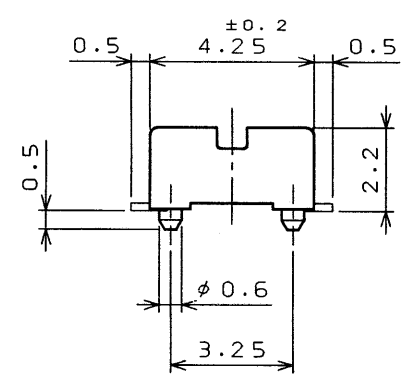
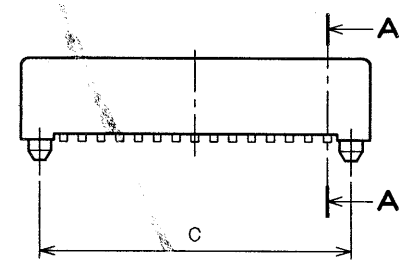
SYM. 版数	DCN NO.	DESCRIPTION 変更内容	DATE 年月日	DRAWN 製図	CHECKED 担当	APP'D 査閲	APP'D 承認



APPLICABLE P.C.B. DIMENSION (REF.)
基板取付寸法(参考)



SECT. A-A
(SCALE 10:1)



NO. OF CONTACTS	A	B	C
20	6.75	4.5	5.75
30	9.25	7	8.25
40	11.75	9.5	10.75
50	14.25	12	13.25
60	16.75	14.5	15.75
70	19.25	17	18.25
80	21.75	19.5	20.75
100	26.75	24.5	25.75

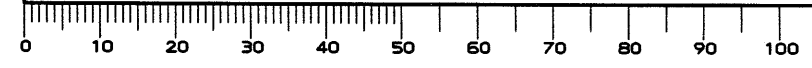
NOTE1. WITHOUT BOSS: IL-312-A**S-VF-A1
WITH BOSS : IL-312-A**SB-VF-A1

注1. ・ボス無し品名: IL-312-A**S-VF-A1
・ボス有り品名: IL-312-A**SB-VF-A1

2	INSULATOR インシュレータ	1	HEAT RESISTING PLASTICS 耐熱性プラスチック	UL94V-0 COLOR:BLACK 色相:黒
1	CONTACT コンタクト	N	COPPER ALLOY 銅合金	GOLD PLATING Auメッキ
ITEM 符号	DESCRIPTION 名称	Q'TY 個数	MATERIAL 材料	FINISH 仕上
仕様書(REFERENCE DOCUMENT)	第1版(DATE) 13. Nov. '96	尺度(SCALE) 5:1	JAE CONNECTOR.COM Reference Only JAE 日本航空電子工業株式会社	
公差(GENERAL TOLERANCE)	製図(DR.)	名称(TITLE) IL-312-A**S* -VF-A1	図面番号(DRAWING NO.) SJ031443	
寸法(DIMENSION)	担当(CHK.) T.MASUMOTO	シリーズ(SERIES) IL-312	版数(SYM.) 1	
角度(ANGLES)	査閲(APP.) 承認(APP.)			

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本図面は日本航空電子工業(株)の所有する情報を含むもので当社の許可なく複製を禁止する。

DOF-C-212B(96.03)



CMP11047
SIZE A3

JAPAN AVIATION ELECTRONICS IND., LTD. CONNECTOR DIVISION 日本航空電子工業株式会社 コネクタ事業部		SPECIFICATION TABLE 製品規格表		Connector Specification No. JACS-1460-0	
THIS SPECIFICATION TABLE CANNOT BE REPRODUCED WITHOUT WRITTEN CONSENT OF JAE. この製品規格表は日本航空電子工業株式会社の 許可のない限り複写を禁じます。				Connector Series Name 品名 IL-312 connector (Gold plated)	
				Applicable Drawing No. 製品図面 SJ028719, SJ028720...etc	
				TK C	
Rev. 版数	Date 発行日	DCN No	Drawn by 担当	Checked by 査閲	Approved by 承認
1	21 Dec.1994		Amemiya	-	Morino
4	24 Jun.1998	42367	Kikuchi	Amemiya	Morino
5	20 Feb. 2003	51560	Koayma	-	S. Kashinagi
Standard data 定格					
Rated current 電流		0.3A AC, DC per contact AC,DC 各 0.3A/1 組当り			
Rated voltage 電圧		200V AC, 300V DC AC200V,DC300V			
Operating temperature range 使用温度範囲		-40°C~+85°C			
Note 備考 This specification covers requirements for mated, gold plated IL-312 connector. 1. IL-312コネクタを嵌合させた状態での性能を規定する。 2. 金メッキ仕様に適用する。					
Item		Procedure 試験方法		Requirement 規定	
MECHANICAL 機械的性能					
Examination of product 構造寸法表示		Visual, dimensional and functional inspection.		Meets requirements of product drawing. 図面と相違ないこと	
Material & Finish 材料仕上加工法				Meets requirements of product drawing. 図面と相違ないこと	
Connector mating force 総合挿入力		Measure force necessary to mate between counterpart connectors. 適合コネクタ間にて挿入を行う。		2N x n (Max.) "n" = number of pins 2N x n 以下 n:芯数	
Connector unmating force 総合抜去力		Measure force necessary to unmate between counterpart connectors. 適合コネクタ間にて抜去を行う。		0.1N x n (Min.) "n" = number of pins 0.1N x n 以上 n:芯数	
Contact retention コンタクト保持力		Measure Contact retention with Tensile strength tester. 引っ張り試験機にてコンタクト保持力を測定		3N (Min.) 3N 以上	
Vibration 耐振性		Subject specimens to 10-55-10 Hz at 1.5mm amplitude, 2 hours each of 3 mutually perpendicular planes, 6 hours in total 全振幅:1.5mm 10~55Hz 各 2h 計 3軸 6h		No electrical discontinuity more than 1 μs.	
Shock 耐衝撃性		MIL-STD-202 method 202, 490m/s ² An appropriate holder for fixing may be applied to the 3axes for Vibration and Shock tests. MIL-STD-202 METHOD202 490m/s ² 3軸 振動及び衝撃試験に於いては取付に適当なホルダーを用いてもよい。			

Item	Procedure 試験方法	Requirement 規定
Durability 寿命試験	Mate and unmate the connectors for 50 cycles. 50回の挿抜を行う	Insulation resistance: 80m Ω (Max.) 接触抵抗: 80m Ω 以下
ELECTRICAL 電気的性能		
Voltage proof 耐電圧	Apply the specified voltage between adjacent contacts. 近接コンタクト間に規定電圧を印加	500VAC r.m.s No breakdown caused for 1 minute. AC500Vr.m.s 1分間異常のないこと
Insulation resistance 絶縁抵抗	Apply 500V DC between adjacent contacts and measure its resistance within one minute. 近接コンタクト間に D.C.500V を印加、1 分間以内に測定する。	100M Ω (Min.) 100M Ω 以上
Contact resistance 接触抵抗	Measure Contact resistance with less than 20mV (low level) and 1mA. 低レベル 20mV 以下, 1mA 以下にて測定	40m Ω (Max.) 40m Ω 以下
ENVIRONMENTAL 環境的性能		
Rapid change of temperature 熱衝撃	Subject specimens to continuous 5 cycles between -55 and 85 $^{\circ}$ C for 30minutes each. 熱衝撃試験 -55 $^{\circ}$ C~+85 $^{\circ}$ C(各 30分)連続5サイクル	Insulation resistance: 50M Ω minimum 絶縁抵抗 50M Ω 以上
Damp heat, steady state 耐湿性	Temperature: 60 $^{\circ}$ C Humidity: 90 to 95 % RH Time: 96 hours 湿度試験 60 $^{\circ}$ C 90~95%RH 96h	Voltage proof: 250V r.m.s. , 1 minute No breakdown. Contact resistance: 80m Ω (Max.) 耐電圧250Vr.m.s. 1分間異常のないこと 接触抵抗 80m Ω 以下
Corrosion, salt mist 耐腐食性	Subject specimens to 5% salt concentration at 35 $^{\circ}$ C for 48 hours 塩水噴霧試験 塩水濃度 5% 35 $^{\circ}$ C 48h	There should be no corrosion detrimental to contact connection. contact resistance: 80m Ω (Max.) コンタクト外の接触上有害な腐食が生じないこと 接触抵抗 80m Ω 以下
Resistance to soldering heat 半田耐熱性	Leave specimens in the 260 \pm 5 $^{\circ}$ C chamber for 2 minutes. 260 $^{\circ}$ C \pm 5 $^{\circ}$ Cの恒温槽に2分間放置	No damage. 外観等、異常のないこと
Solderability 半田付性	After dipping the connector specimens in the applicable flux for 5 to 10 seconds, dip in the Sn : Pb = 60 : 40 Solder of 230 \pm 5 $^{\circ}$ C for 3 \pm 0.5 seconds 適合フラックスに5~10s浸漬し Sn:Pb=60:40 半田 230 \pm 5 $^{\circ}$ Cに3 \pm 0.5s 浸漬する。	Wet solder coverage: 95% (Min.) 浸した部分の 95%以上が半田で覆われていること
Dry heat (High temperature) 耐熱性	Subject specimens to 85 $^{\circ}$ C for 96hours continuously 耐熱試験 85 $^{\circ}$ C 96h 連続	Contact resistance: 80m Ω (Max.) 接触抵抗 80m Ω 以下