

PRODUCT SPECIFICATION

Customer: Apple Computer , Inc	No. T-2-35065 (R-2-35065)	Date Issued: Oct. 25, 2005
	Revised:	Date Revised:
Title Subject: ACH CONNECTOR		Issued by: Tokyo Engineering Center

This product specification contains the results of performance tests for ACH connector.

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Prepared by: <i>S. Kodama</i>	Checked by: <i>Y. Ushiro</i>	Reviewed by: _____	Approved by: <i>M. Hara</i>
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1. PART NAME, PART NUMBER & DRAWING NUMBER

Part Name		Part Number		Drawing Number
Header	Taping product	2,3P	BM**B-ACH()S-GAN-TF (LF)(SN)	KRD-36212
		4P	BMO4B-ACHSS-A-GAN-TF (LF)(SN)	KRD-38299
	Loose pieces product	2,3P	BM**B-ACH()S-GAN (LF)(SN)	KRD-36213
		4P	BMO4B-ACHSS-A-GAN (LF)(SN)	KRD-38294
Socket	Contact	SACH-003G-P0.2		KRD-36214
	Housing	2,3P	ACHR-**V-()	KRD-36215
		4P	ACHR-04V-A-S	KRD-38295

Note₁: Number of circuits in two-digit figures is indicated in **.

A character of an alphabet in color is indicated in ().

Note₂: (LF)(SN) as identification part number indicating lead-free product shall be displayed on a label until all products are shifted to the lead-free.

2. CONSTRUCTION, DIMENSIONS, MATERIAL & SURFACE FINISH

Construction and dimensions shall be in accordance with the referenced drawings.
Material and surface finish shall be as specified below.

Part Name			Material	Surface Finish, etc.
Taping part	Carrier tape		Polyester	
	Cover tape		Polyester	
	Reel	Flange	Polystyrene	
		Core	Polypropylene Polystyrene	
Header	Contact		Copper alloy	Nickel-underplated Gold-plated
	Wafer		Heat resisting resin	Flammability: UL94V-0 Natural
	Reinforcement		Copper alloy	Copper-underplated Tin-plated
Socket	Contact		Copper alloy	Nickel-underplated Gold-plated
	Housing		PBT	Flammability: UL94V-0 Natural

3. CHARACTERISTICS (CONNECTOR PART)

Item		Rated Value			
Current rating		2Pin	3Pin	4Pin	(AC,DC)
	AWG#28	2.0A	2.0A	1.5A	
	AWG#30	1.0A	1.0A	1.0A	
Voltage rating		50V (AC, DC)			(Note ₃)
Temperature range		-25 to +85 °C			(Note ₄)
Applicable wire	Specification	Tin-plated annealed copper wire (stranded wire)			
	Conductor size	AWG#30, 28			
	Insulation O.D.	φ 0.5 to φ 0.63 mm			

Note₃: Clearance between the connector and other metallic parts shall be longer than the length of the circuit pitch.

Note₄: Including temperature rise in applying an electrical current.

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4. ABOUT WHISKER

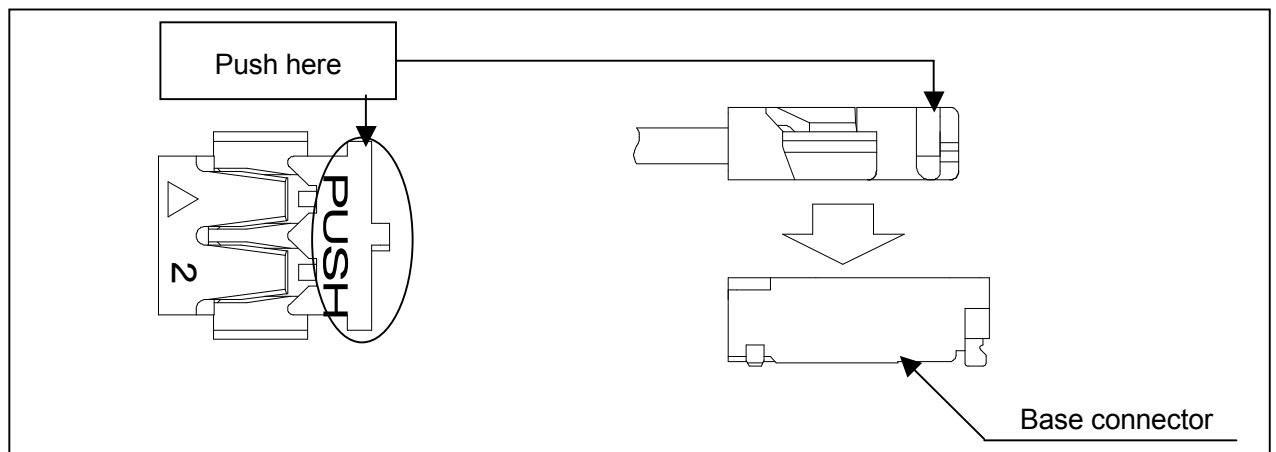
Although the lead-free plating of this product has performed re-flow tin plating which ensures maximum effectiveness for retarding whisker growth, it is not possible to completely eliminate the whisker problem.

5. NOTICE

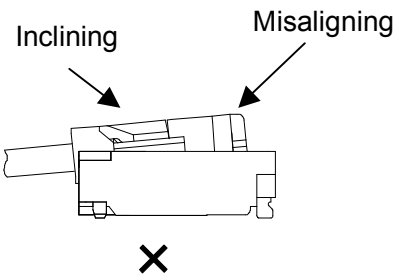
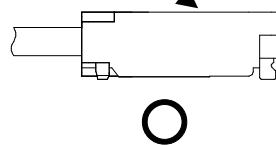
Be sure to read through the attached handling manual (CHM-1-2170) before using the ACH connector.

5.1 Mating Method of Connector

Mate a socket contact on the mating axis to a base connector.
At this time, confirm that the part of 'PUSH' of the socket housing is pushed and it mates securely.



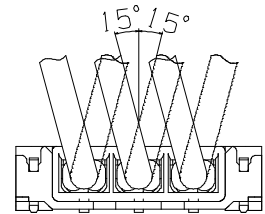
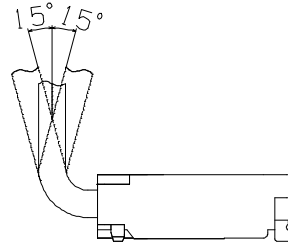
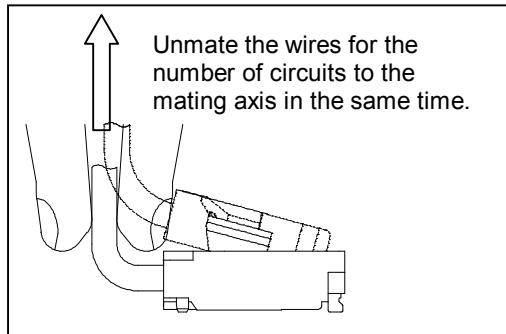
Socket aligned to upper surface of header



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5.2 Unmating Method of Connector

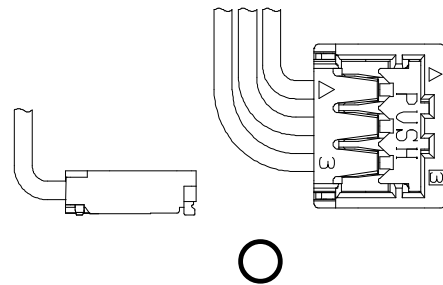
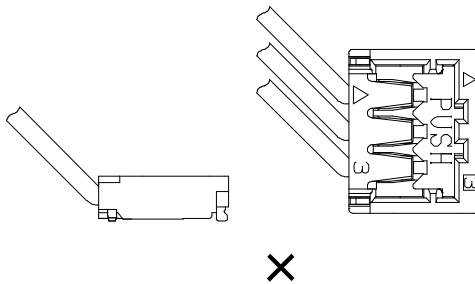
Unmate connector by holding wires in a bundle within 15 degrees to the mating axis.



5.3 Handling Precautions

Make allowance so that power of more than the tension by the bending wire should not apply the connector when you handle the wire.

(Provide space above connector in order to form wide by bending and do not apply tension to connector as below.)



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6. PACKAGING SPECIFICATION (EMBOSSSED-TAPING)

6.1 Packaging Quantity

Quantity to be wound shall be 4,500 pieces per reel as the standard quantity.

6.2 Packaging Method

- (1) Each header shall be put into the fixed position*¹ of the embossed carrier tape individually. The tape shall be sealed with cover tape by heat treatment.
- (2) After sealed, the carrier tape shall be wound*² to reel to be specified quantity and the end of cover tape*³ shall be fixed to the flange of the reel by adhesive tape.
- (3) The wound reel shall be packaged in a corrugated cardboard box for shipment.

Notes *1: See the attached drawing.

*2: The direction to be wound; See the attached drawing.

*3: Corresponding to leader part in taking out the tape.
For the treatment of the end of tape, see the attached drawing.

6.3 Marking

The label marked the following items shall be attached to the flange part of the reel.

- (1) Part number
- (2) Quantity
- (3) Manufacturing lot number
- (4) Company name or its abbreviation
- (5) Other necessary items

7. SPECIMEN

Part Name		Part Number
Header	Taping product	BM02B-ACHSS-GAN-TF (LF)(SN) BM03B-ACHSS-GAN-TF (LF)(SN) BM04B-ACHSS-A-GAN-TF (LF)(SN)
	Loose pieces product	BM02B-ACHSS-GAN (LF)(SN) BM03B-ACHSS-GAN (LF)(SN) BM04B-ACHSS-A-GAN (LF)(SN)
Socket	Contact	SACH-003G-P0.2
	Housing	ACHR-02V-S ACHR-03V-S ACHR-04V-A-S

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8. TEST CONDITIONS

- 1) When tested in accordance with the test conditions and methods specified in each item, each requirement shall be met.
- 2) Unless otherwise specified, tests shall be conducted under the following ambient conditions specified in JIS C 60068-1 (IEC 60068-1) [Basic Environmental Testing Procedures General and Guidance].

Temperature: 15 to 35 °C
Relative humidity: 25 to 75 %

- 3) For environmental test, as a rule, the specimen that header and socket are assembled for actual use shall be used. Unless otherwise specified, the wire of UL3302 style AWG#28 HF(7-strands wire) manufactured by Furukawa Electric Co., Ltd. Shall be used.
- 4) For tests of taping part, unless otherwise specified, 16mm width tape shall be used.

9. REQUIREMENTS, TEST METHODS & TEST RESULTS

9.1 Taping part

9.1.1 Appearance

Requirement:

- (1) Sprocket hole shall not be covered with cover tape.
- (2) Cover tape shall not run out of carrier tape.
- (3) Cover tape shall not be peeled.
- (4) There shall be no other defects.

Test method: Visual inspection.

Test result: Good.

9.1.2 Tensile Strength of Tape

Requirement: There shall be no defects such as breakage.

Test method: Pulling load of 10N shall be applied to each of carrier tape and cover tape. Pulling direction shall be its taking out direction. Any defects such as breakage shall be checked.

Test result: There was no defect.

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9.1.3 Peel Strength of Cover Tape

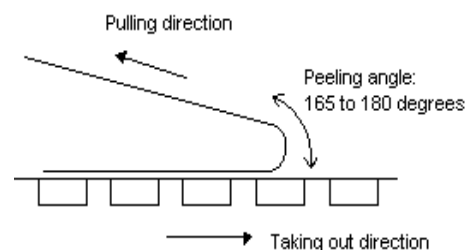
Requirement: 0.1 to 1 N

Test method: Cover tape shall be pulled as shown in the figure on the right side.
(Peeling speed: 300mm/min.)

Test result:

UNIT: N

0.20 to 0.49



9.2 Connector part

9.2.1 Appearance

Requirement: There shall be no crack, no deformation or discoloration which may affect the performance specified in this specification.

Test method: Visual inspection.

Test result: Good.

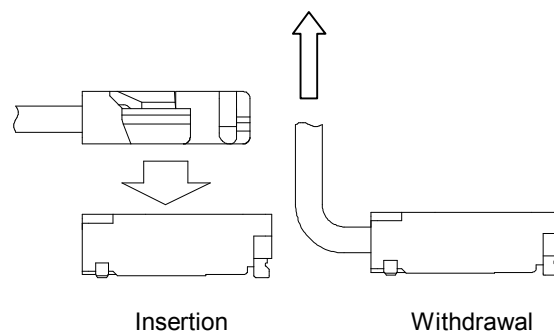
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9.2.2 Mechanical Performance Test

9.2.2.1 Insertion Force (I.F.) & Withdrawal Force (W.F.)

Requirement:

No. of circuits	At initial		UNIT: N
	I.F. (max.)	W.F. (min.)	At 30th W.F. (min.)
2	12	2.5	1
3	18		
4	24		



Test method: A housing with crimped contacts and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and also withdrawal force at 30th shall be measured. (Testing speed: 1 to 5mm/sec.)

Test result:

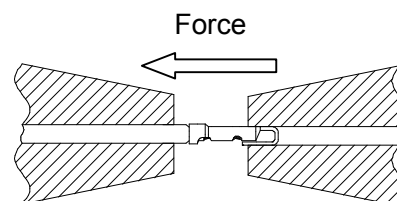
No. of circuits		UNIT: N		
		Ave.	Max.	Min.
2	Initial I.F.	7.3	7.9	6.2
	Initial W.F.	5.5	6.5	4.0
	W.F. at 30th	2.5	3.2	2.3
3	Initial I.F.	9.6	11.0	8.5
	Initial W.F.	5.6	6.9	4.5
	W.F. at 30th	3.1	3.9	2.4
4	Initial I.F.	11.4	11.5	11.2
	Initial W.F.	5.4	5.5	5.2
	W.F. at 30th	2.4	2.5	2.2

n=10

9.2.2.2 Crimp Tensile Strength

Requirement:

Wire to be used	Requirements N min.
AWG#30	5
AWG#28	10



Test method: Pulling load shall be applied between a correctly crimped contact and wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: Aprox.25mm/min.)

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Test result:

UNIT: N

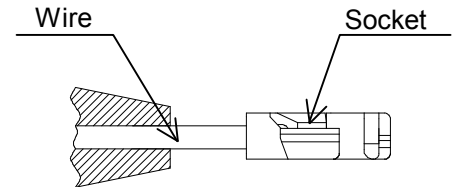
	Conductor diameter (Wires/mm)	Insulation O.D. (mm)	Ave.	Max.	Min.
UL1571 AWG#30	7/0.102	$\phi 0.54$	15.0	16.6	14.1
UL3302 AWG#28	7/0.127	$\phi 0.60$	23.2	23.6	23.0

n=10

9.2.2.3 Contact Retention Force

Requirement: 4N min. [When AWG#28 is applied.]

Test method: A crimped contact shall be mounted in a housing and pulled in the axial direction. The load required to pull the contact out of the housing shall be measured. (Testing speed: 1 to 5mm/sec.)



Test result:

UNIT: N

Ave.	Max.	Min.
6.8	7.6	6.0

n=10

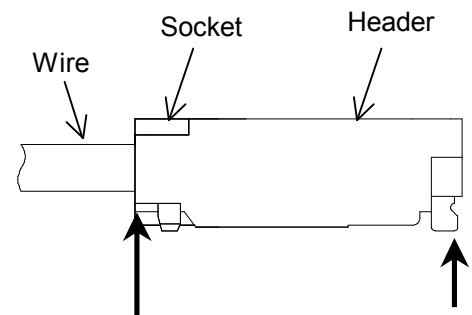
9.2.3 Electrical Performance Test

9.2.3.1 Contact Resistance

Requirement: Initial: 10m Ω max.
After tests: 20m Ω max.

Test method: Contact resistance between points A and B of the specimen assembled for actual use shown in the figure on the right side shall be measured under the following conditions.

Test current: 10mA (DC)
Open voltage: 20mV max.



Test result: See each environmental test item.

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9.2.3.2 Current Continuity

Requirement: There shall be no current discontinuity longer than 1 microsecond during a vibration test.

Test method: Each circuit of the specimen assembled for actual use shall be connected in series and test current of 10mA(DC) shall be applied. Current discontinuity longer than 1 microsecond during the test shall be detected by a continuity meter.

Test result: See vibration test item.

9.2.3.3 Insulation Resistance

Requirement: Initial: 100MΩ min.
 After tests: 100MΩ min. (Humidity & thermal shock tests)

Test method: 500V DC shall be applied between adjacent contacts of a mated specimen to measure insulation resistance. (The header shall not be soldered.)

Test result:

UNIT: MΩ	
Items	Measured values
Initial	1,000 min.
After humidity test	1,000 min.
After thermal shock test	1,000 min.

n=10

9.2.3.4 Dielectric Withstanding Voltage

Requirement: There shall be no breakdown or flashover.

Test method: Testing voltage specified below shall be applied between adjacent contacts of a mated specimen for one minute. (The header shall not be soldered.)

Initial: 500V AC
 After tests: 300V AC (Humidity & thermal shock tests)

Test result:

Initial	Good.
After humidity test	Good.
After thermal shock test	Good.

n=10

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9.2.4 Environmental Test

9.2.4.1 Durability

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: A housing with crimped contacts and a header shall be mated and unmated. After repeated 30 cycles, contact resistance shall be measured.

Test result:

UNIT: mΩ

	Initial			After the test		
Contact resistance	Ave.	Max.	Min.	Ave.	Max.	Min.
	4.0	4.6	3.1	4.2	4.6	3.0

n=10

9.2.4.2 Humidity

Requirement: Contact resistance shall be 20mΩ max. after the test. Insulation resistance shall be 100MΩ min. after the test. There shall be no breakdown or flashover on the dielectric withstanding voltage test.

Test method: The specimen shall be placed in a humidity chamber of the following conditions. After the test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.

Temperature: 40 ± 2 °C
Relative humidity: 90 to 95 %
Period: 240 hours

Test result:

UNIT: mΩ

	Initial			After test		
Contact resistance	Ave.	Max.	Min.	Ave.	Max.	Min.
	3.4	4.7	3.0	3.5	4.8	3.2

n=10

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9.2.4.3 Heat Aging

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: The specimen shall be placed in a heat oven of the following conditions. After the test, contact resistance shall be measured.

Temperature: 85 ± 2 °C
Period: 250 hours

Test result:

UNIT: mΩ

Contact resistance	Initial			After test		
	Ave.	Max.	Min.	Ave.	Max.	Min.
	3.9	4.2	3.3	4.1	4.5	3.4

n=10

9.2.4.4 Thermal Shock

Requirement: Contact resistance shall be 20mΩ max. after the test. Insulation resistance shall be 100MΩ min. after the test. There shall be no breakdown or flashover on the dielectric withstanding voltage test.

Test method: The specimen shall be subjected to a thermal shock test of the following conditions. After the test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.

1 cycle consists of:
-55 ± 3 °C for 30 minutes
+85 ± 2 °C for 30 minutes
Total cycles: 25 cycles

Test result:

UNIT: mΩ

Contact resistance	Initial			After test		
	Ave.	Max.	Min.	Ave.	Max.	Min.
	4.0	4.6	3.1	4.2	4.7	3.0

n=10

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9.2.4.5 Sulfur Dioxide Gas

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: The specimen shall be subjected to a sulfur dioxide gas of the following conditions. After the test, contact resistance shall be measured.

Concentration: 10 ± 1 ppm
Temperature: 40 ± 2 °C
Relative humidity: 80 ± 5 %
Period: 96 hours

Test result:

UNIT: mΩ

	Initial			After test		
	Ave.	Max.	Min.	Ave.	Max.	Min.
Contact resistance	4.2	4.8	3.3	4.6	5.6	3.5

n=10

9.2.4.6 Salt Spray

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: The specimen shall be subjected to a salt spray test of the following conditions. After the test, it shall be washed with running water and dried naturally before the measurement of contact resistance.

Temperature: 35 ± 2 °C
Concentration: 5 % in weight
Period: 48 hours

Test result:

UNIT: mΩ

	Initial			After test		
	Ave.	Max.	Min.	Ave.	Max.	Min.
Contact resistance	4.0	4.5	3.0	4.3	5.1	3.5

n=10

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9.2.4.7 Vibration

Requirement: Contact resistance shall be 20mΩ max. after the test.
There shall be no current discontinuity longer than 1 microsecond during the test.

Test method: The specimen shall be mounted on a printed circuit board (PCB) and subjected to a vibration test of the following conditions. During the test, current continuity shall be checked. After the test, contact resistance shall be measured.

Frequency: 10-55-10Hz/minute
Amplitude: 1.52mm
Direction: Each of X,Y,Z-axial directions
*Each axis shall be at right angles to others.
Period: 2 hours for each direction

Test result:

UNIT: mΩ

	Initial			After test		
Contact resistance	Ave.	Max.	Min.	Ave.	Max.	Min.
	3.9	4.6	3.2	4.1	5.1	3.0

Current continuity	There was no current discontinuity longer than 1 microsecond.
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n=10

9.2.5 Solder Test

9.2.5.1 Solderability

Requirement: Plating surface of solder-dipping section of a specimen shall be covered with smooth solder.

Test method: Fluxed soldering section of a specimen shall be dipped in solder of the following conditions.

Solder: Sn-3Ag-0.5Cu
Flux: Activation flux
(CF-110VH-2A made by Tamura Kaken Corporation)
Solder temperature: 245 ± 5 °C
Immersion period: 3 ± 0.5 seconds

Test result:

Good.
n=10

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9.2.5.2 Resistance to Soldering Heat

Requirement: There shall be no deformation or damage which may affect the performance.

Test method:

Test method:

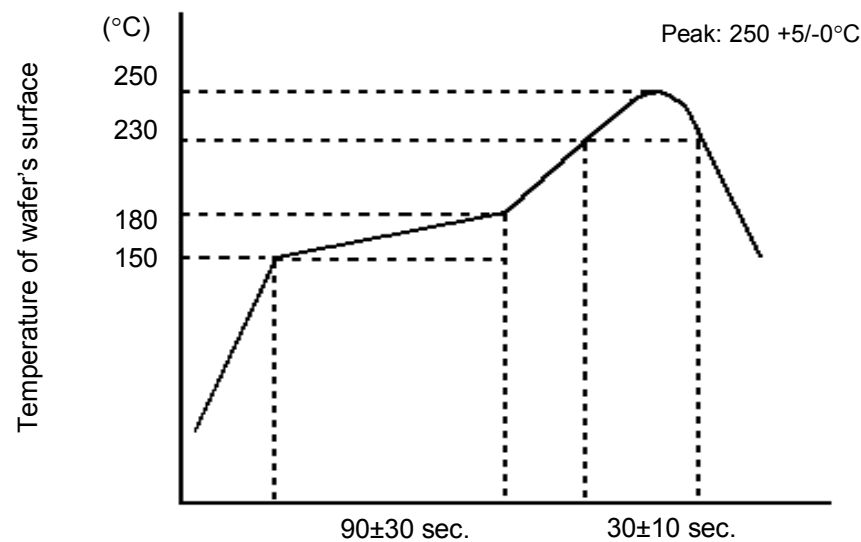
[By soldering iron]

The specimen shall be mounted on a PCB and soldered by soldering iron of the following conditions. No abnormal load such as lateral load shall be applied.

Solder:	Sn-3Ag-0.5Cu
Testing PCB:	Glass based epoxy resin
Temperature of the tip:	350 °C
Period of soldering:	3 seconds

[By reflow soldering]

The specimen shall be subjected to a reflow soldering under the conditions shown in the graph below. After that, the appearance shall be observed. Material of testing PCB shall be glass based epoxy resin and its thickness shall be 0.8mm.

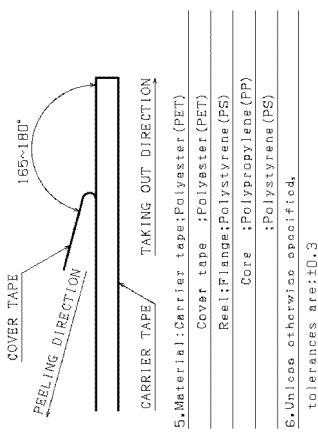
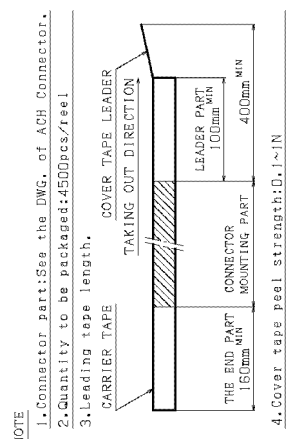
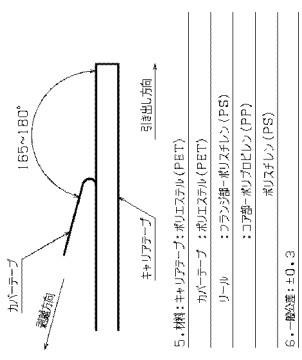
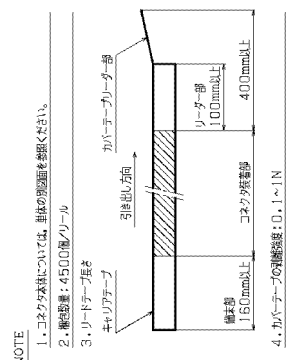
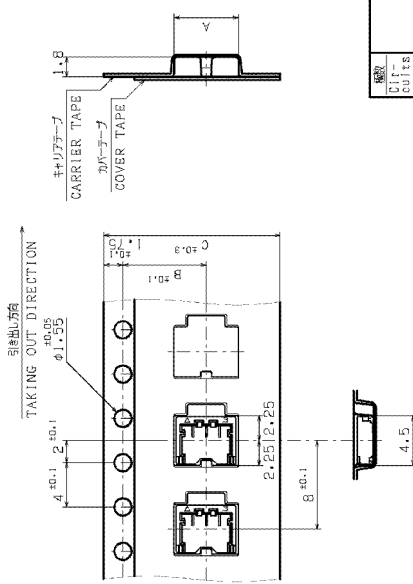
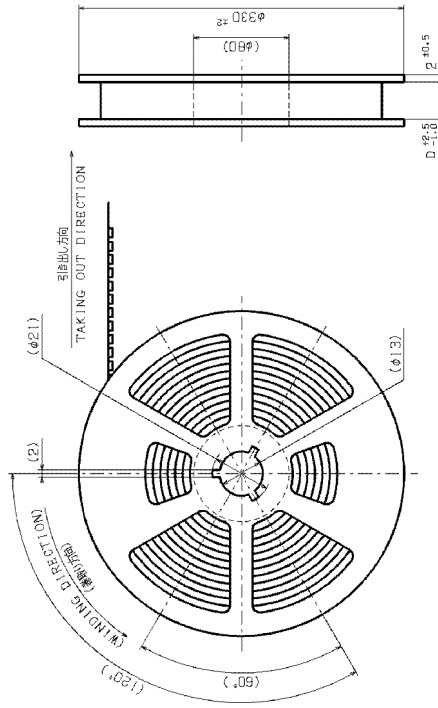


[Temperature profile for reflow soldering]

Test result:

There was no deformation or damage which may affect the performance.

n=10

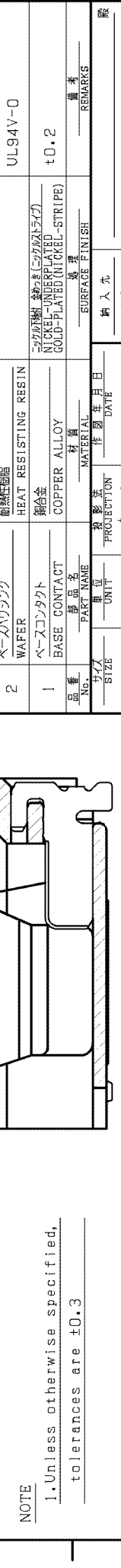
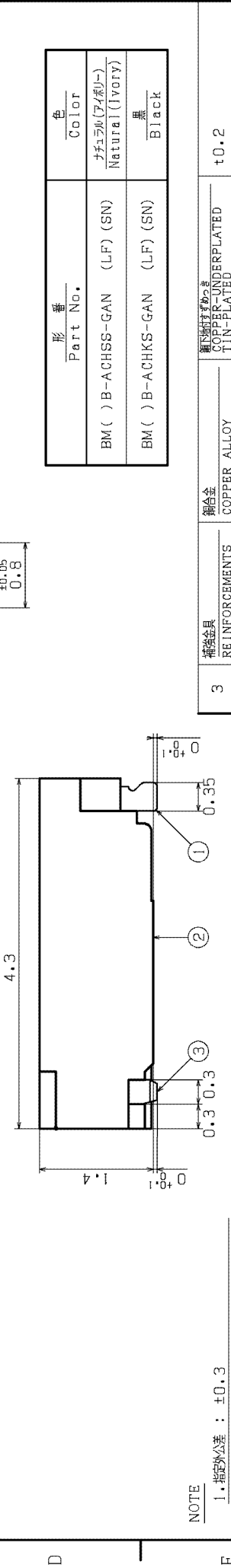
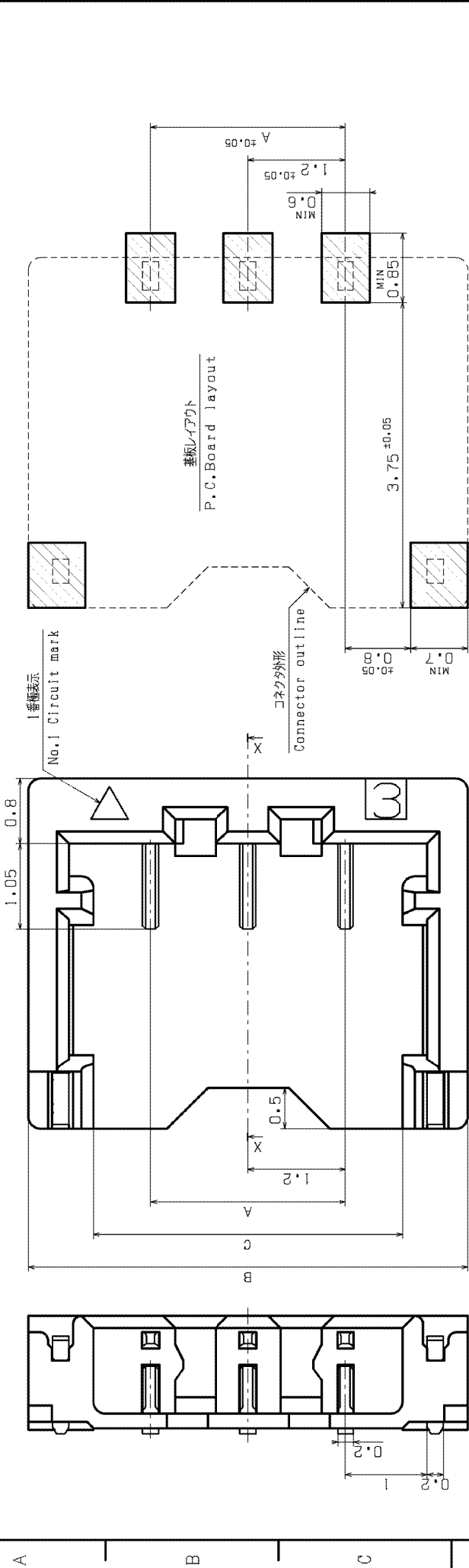


品名 Circuit	形番 Part No.	寸法 (mm)			
		A	B	C	D
2	BMD2B-AH () S-GAN-TF	4.6	5.5	12	13.5
3	BMD3B-AH () S-GAN-TF	5.8	7.5	16	17.5

Part No.	色 Color
BM () B-ACHSS-GAN-TF	ナチュラル(ナチュラル) Natural (ivory)
BM () B-ACHKS-GAN-TF	黒 Black

品番 No.	品名 PART NAME	仕 寸 規 格 SIZE	材料 MATERIAL	仕 工 日 WORKING DATE	検査 日 INSPECTION DATE	検査 箇所 CHECKED Y. U	検査 結果 K. M	承認 APPROVED H. M	品名	数量	仕 工 日 FINISH	備 考 REMARKS
									納入先 CUSTOMER	品名 SERIES NAME	原番 PART No.	図番 DRAWING No.
A2	METRIC	6726		JAN. 28, 2005					ACHコネクタ エンボスターシコフ			
									ACH CONNECTOR ENBOSS-TAPING PRODUCT			
									BM (1) B-AH (1) S-GAN-YE (LF) (SN)			
												R0
 日本 圧着端子製造株式会社 J.S.T. MFG. CO., LTD.												

REV.	DESIGN
REV.	DATE
DESIGN	



極数 Circuits	形番 Part No.	寸法/Dimensions			
		A	B	C	D
2	BMD2B-ACH () S-GAN (LF) (SN)	1.2	4.2	2.6	
3	BMD3B-ACH () S-GAN (LF) (SN)	2.4	5.4	3.8	

形番 Part No.	色 Color
BM () B-ACHSS-GAN (LF) (SN)	ナチュラル (アイボリー) Natural (Ivory)
BM () B-ACHKS-GAN (LF) (SN)	黒 Black

3	増強金具 REINFORCEMENTS	銅合金 COPPER ALLOY	無下地 UNDERPLATED	0.2
2	ベースワザング WAFER	耐熱性樹脂 HEAT RESISTING RESIN		UL94V-0
1	ベースコンタクト BASE CONTACT	銅合金 COPPER ALLOY	ニッケルメッキ (ニッケルストライプ) NICKEL-UNDERPLATED GOLD-PLATED (NICKEL-STRIP)	0.2
品番 No.	部品名 PART NAME	材質 MATERIAL	表面処理 SURFACE FINISH	備考 REMARKS
A3	単位 UNIT	投影法 PROJECTION	納入先 CUSTOMER	
承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN	尺度 SCALE
M.H	Y.U	K.M		20:1
J.S.T. 日本 正 著 銷 子 製 造 株 式 公 社 J.S.T.MFG.CO.,LTD.				

1

2

3

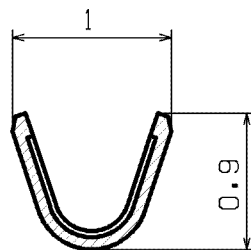
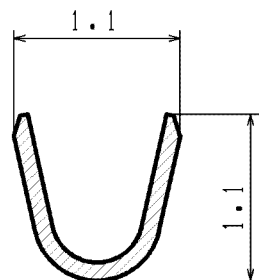
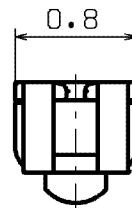
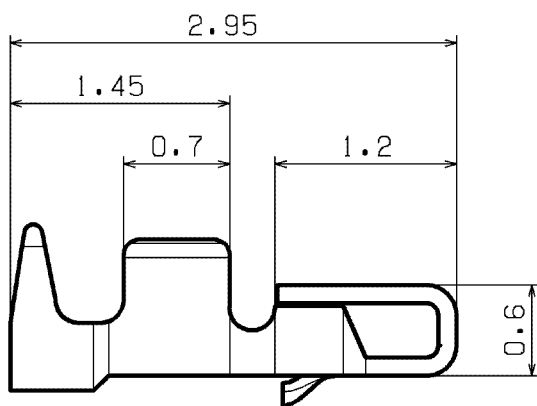
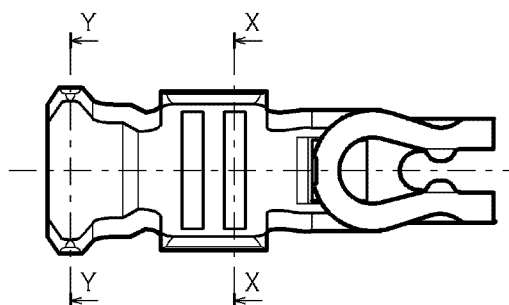
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改訂
REV.変更事項
DESCRIPTIONS年月日
DATE設計
DESIGNED

NOTE

1. 指定外公差 : ± 0.3

NOTE

1. Unless otherwise specified,
tolerances are ± 0.3 インシュレーションバレル
INSULATION BARREL
(Y-Y sec.)ワイヤーバレル
WIRE BARREL
(X-X sec.)ソケットコンタクト
SOCKET CONTACT銅合金
COPPER ALLOYニッケル下地付金めっき
NICKEL-UNDERPLATED
GOLD-PLATED

t0.12

品番
No.部品名
PART NAME材質
MATERIAL処理
SURFACE FINISH備考
REMARKSサイズ
SIZE単位
UNIT投影法
PROJECTION作図年月日
DATE納入先
CUSTOMER

殿

A4

METRIC



JAN.28.2005

品名

ACH コネクタ

承認
APPROVED検図
CHECKED設計
DESIGNED製図
DRAWN尺度
SCALE

PART NAME

ACH CONNECTOR

H.M

Y.U

K.M

20:1

形番

SACH-003G-P0.2

PART No.

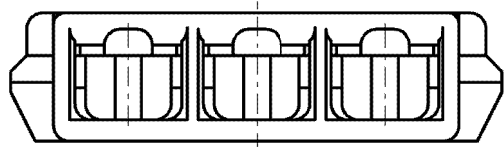
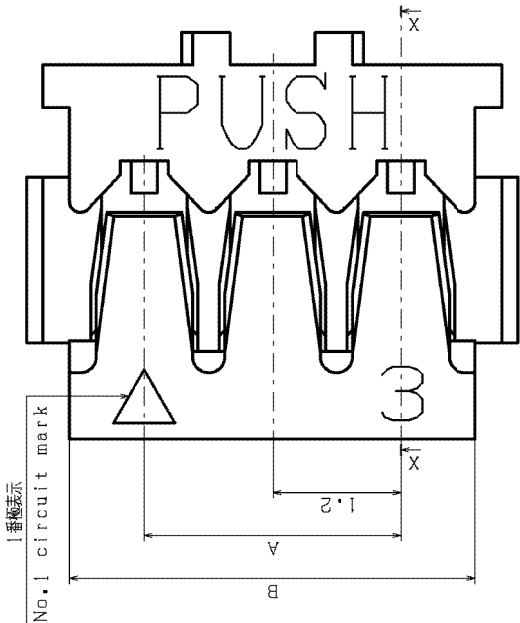
図番

KRD-36214

RO

JST

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J.S.T.MFG.CO.,LTD.



NOTE

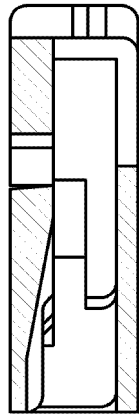
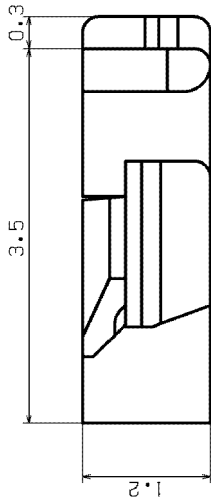
1.指定公差：±0.3

NOTE

1.Unless otherwise specified,
tolerances are ±0.3

極数 Cir cuits	形 番 Part No.	寸法/Dimensions	
		A	B
2	ACHR-02V-()	1.2	2.6
3	ACHR-03V-()	2.4	3.8

形 番 Part No.	色 Color
ACHR-()V-S	ナチュラル(白) Natural (White)
ACHR-()V-K	黒 Black

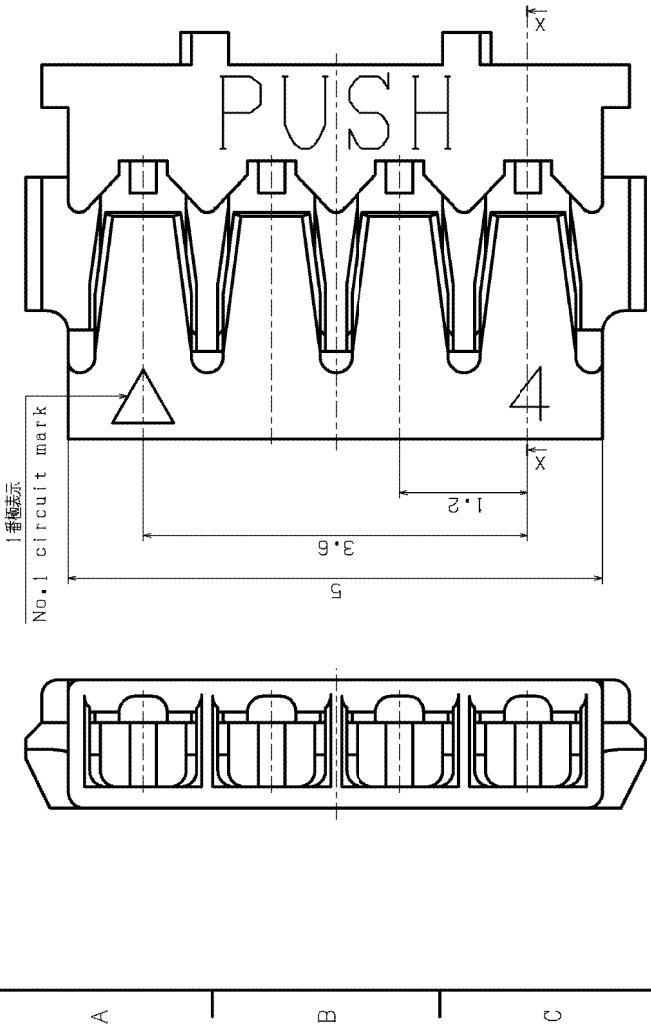


X-Xsec.

品 番 No.	ソケットハウジング SOCKET HOUSING	材質 MATERIAL	表面処理 SURFACE FINISH	備考 REMARKS
サイズ SIZE	部品名 PART NAME	作 年 月 日 DATE	納入先 CUSTOMER	
A3	単位 UNIT	投影法 PROJECTION		
	METRIC	図 案 DRAWN	品 名 SERIES NAME	
承認 APPROVED	検 図 CHECKED	設計 DESIGNED	尺 寸 SCALE	
M.H	Y.U	K.M	20:1	
JST 日本圧着端子製造株式会社 J.S.T.MFG.CO.,LTD.				
図 番 DRAWING No.				R0
KRD-36215				

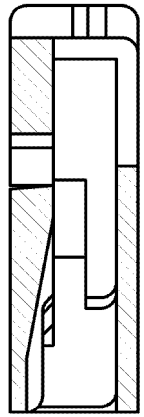
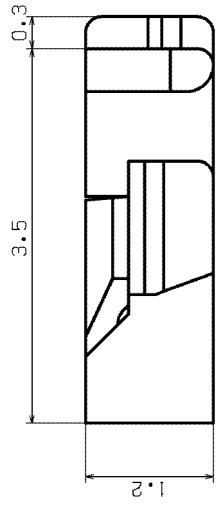
1 2 3 4 5 6 7 8

設計 DESIGNED	年月日 DATE	変更事項 DESCRIPTIONS
△		



NOTE
1. 指定公差 : ± 0.3

NOTE
1. Unless otherwise specified,
tolerances are ± 0.3



品番 No.	ソケットハウジング SOCKET HOUSING	材質 MATERIAL	表面処理 SURFACE FINISH	備考 REMARKS
サイズ SIZE	単位 UNIT	投影法 PROJECTION	納入先 CUSTOMER	
A3	METRIC	OCT. 21, 2005	品名 ACHコネクタ	UL94V-0 ナチュラル(白) Natural(White)
承認 APPROVED	検図 CHECKED	設計 DESIGNED	シリーズ名 SERIES NAME	
M.H	Y.U	K.M	ACH CONNECTOR	
			図番 PART No.	
			図号 DRAWING No.	KRD-36295
				R0

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