

A blue wireframe illustration of a car chassis, showing the frame, wheels, and suspension components, set against a dark blue background with a grid of dots.

IRISO ELECTRONICS

10120 SERIES

BOARD-TO-BOARD CONNECTORS



ACTIVE
INT*3 +
TTS SENSOR GROUP 3.12

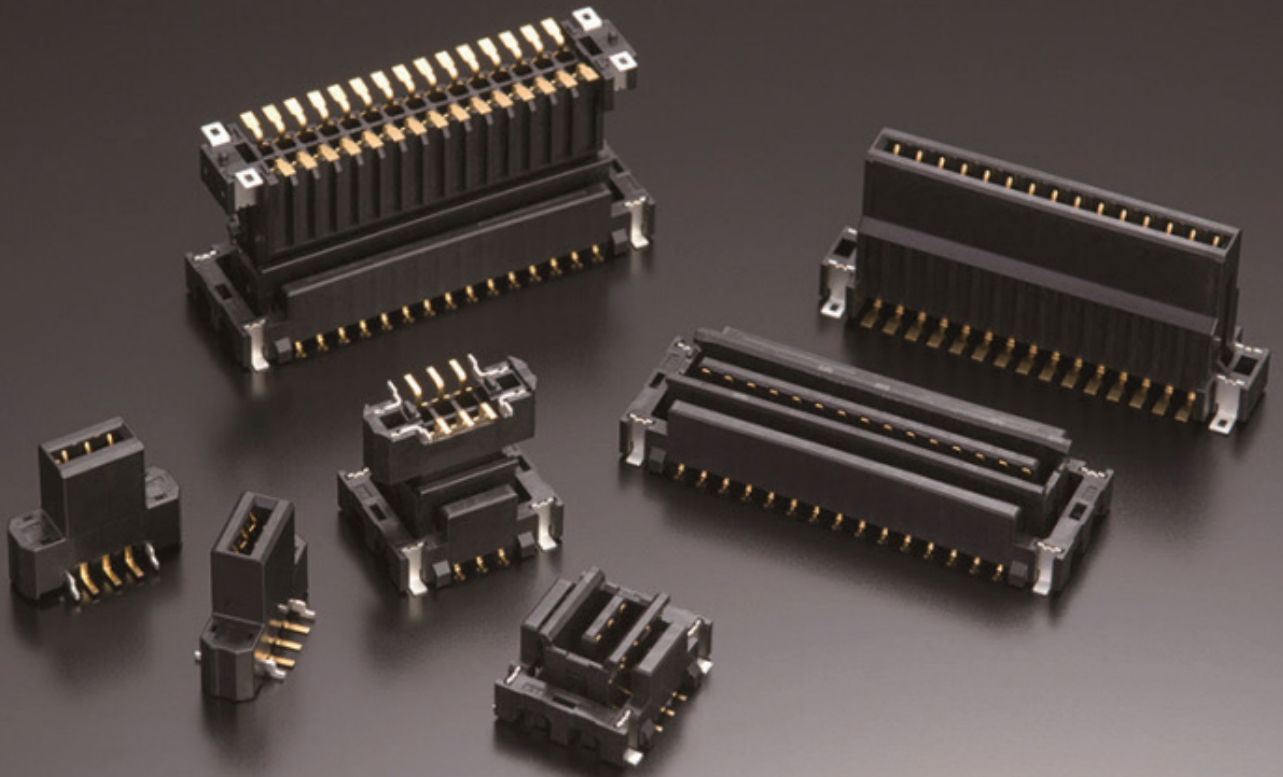
SAFE

1G-2 +
TTS P-34.34-1

Applications:

The 10120 Series is reliable in the harshest environments, including under high vibration and temperature conditions in electric vehicle powertrains and industrial equipment.

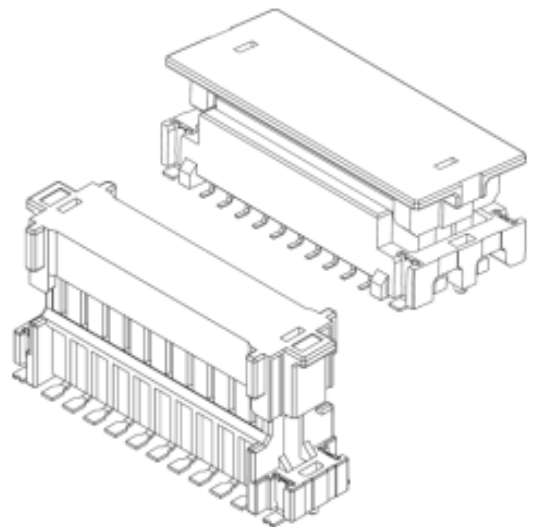




PRODUCT INFORMATION

The 10120 Series is a board-to-board connector with a 2mm pitch in two rows.

In addition to IRISO's proprietary Z-Move™ technology, it is also designed with a two-point contact. Together this makes the connector extremely durable under severe vibrating conditions.

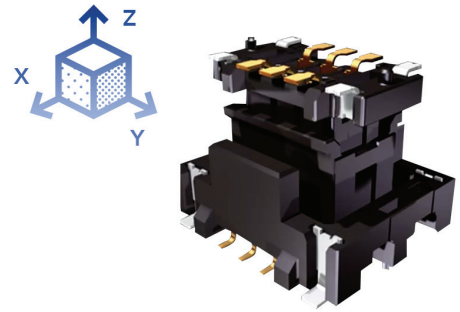


PRODUCT FEATURES

1: Z-MOVE™ TECHNOLOGY

IRISO's proprietary Z-Move™ technology uses the terminals' spring feature and allows free movement in the X, Y and Z directions. This helps absorb surface vibrations caused in harsh operating conditions. The floating feature allows the mated terminals to avoid relative movement between themselves, thus preventing contacts' fretting.

When multiple connectors are stack mounted between two boards, there is a chance that connectors might misalign. IRISO's Z-Move™ floating technology helps the connectors self-align and prevent stress on solder joints.



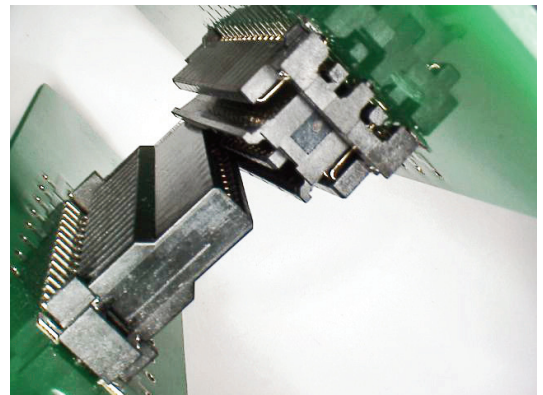
2: HIGH RESISTANCE IN HARSH TEMPERATURE CONDITIONS



The 10120 Series has the ability to perform in harsh temperature environments ranging from -40°C to 125°C . The series is designed to minimize displacements caused by changing temperatures and conditions where vibration is a factor.

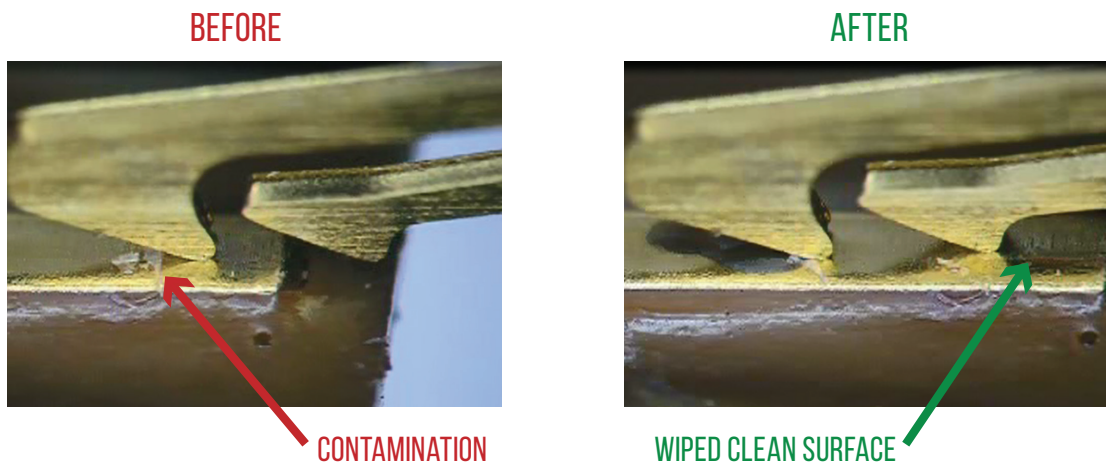
3: PREVENTION OF STRESS ON THE SOLDER JOINT

There are certain situations when multiple connectors are mounted on the same pair of PCBs. Stresses on the solder joints can be a big concern. However, Z-Move™ has a $\pm 0.7\text{mm}$ to accommodate any misalignment. The two mated PCBs will be fixed together by chassis or standoff/screws, which create "residual stress." The floating feature protects the solder joints and the connector itself from residual stress.

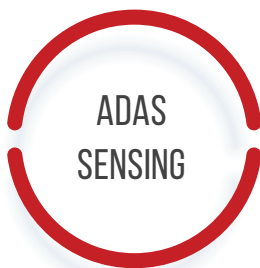


4: TWO-POINT CONTACT

Another feature that makes the 10120 series stand out is its' dependable two-point contact. The two-point contact not only raises the chances of making clean contact but allows the front to wipe potential foreign materials away before the rear contact on the same path reaches the contact position.



COMMON APPLICATIONS



PRODUCT SPECS

IMSA-10120B-**-Y***
IMSA-10120S-**-Y***

Item	Specification	Unit
Pitch	2.0	mm
Floating	X: ± 0.65 Y: ± 0.7	mm
Mating Height	11 ~ 20	mm
Pin Counts	6 ~ 30	Circuit
Connecting Type	Stacking	-
Operating Temperature Range	-40 ~ +125	°C
Rated Current	1	A
Rated Voltage	125	V
Contact Resistance	50	mΩ
Withstand Voltage	500	V
Durability (Insertion/Withdrawl)	30	Times

*For packaging info, please refer to our packaging drawing

PLUG

Parts	Material	Plating
Housing	PA9T	-
Contact	Copper Alloy	Gold
Metal Flange	Copper Alloy	Tin

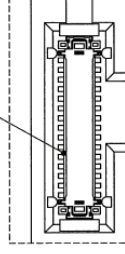
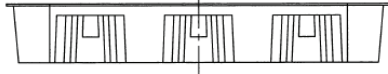
SOCKET

Parts	Material	Plating
Housing	PA9T	-
Contact	Copper Alloy	Gold
Metal Flange	Copper Alloy	Tin

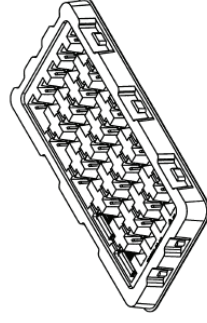
*Specification is subject to change without prior notice in order to improve the performance of the product. Dimensions and specifications described herein are limited to major items. When applying the products, please confirm the details on the drawing and specification sheets which will be provided upon request.

A
B
C
D
E
F
G
H

箱数 CMT	箱号 PACKING No.	製品番号 PRODUCT No.	A	B	梱包数量/ PACKING QTY
6	101205-067504 (505)	101205-06718 (719) -GFN4	245	30	45
10	101205-105004 (505)	101205-10218 (719) -GFN4	234	39	35
20	101205-202504 (505)	101205-20218 (719) -GFN4	230	46	30
30	101205-307504 (505)	101205-30218 (719) -GFN4	220	55	25



①



MATERIAL. 材質

[illegible]

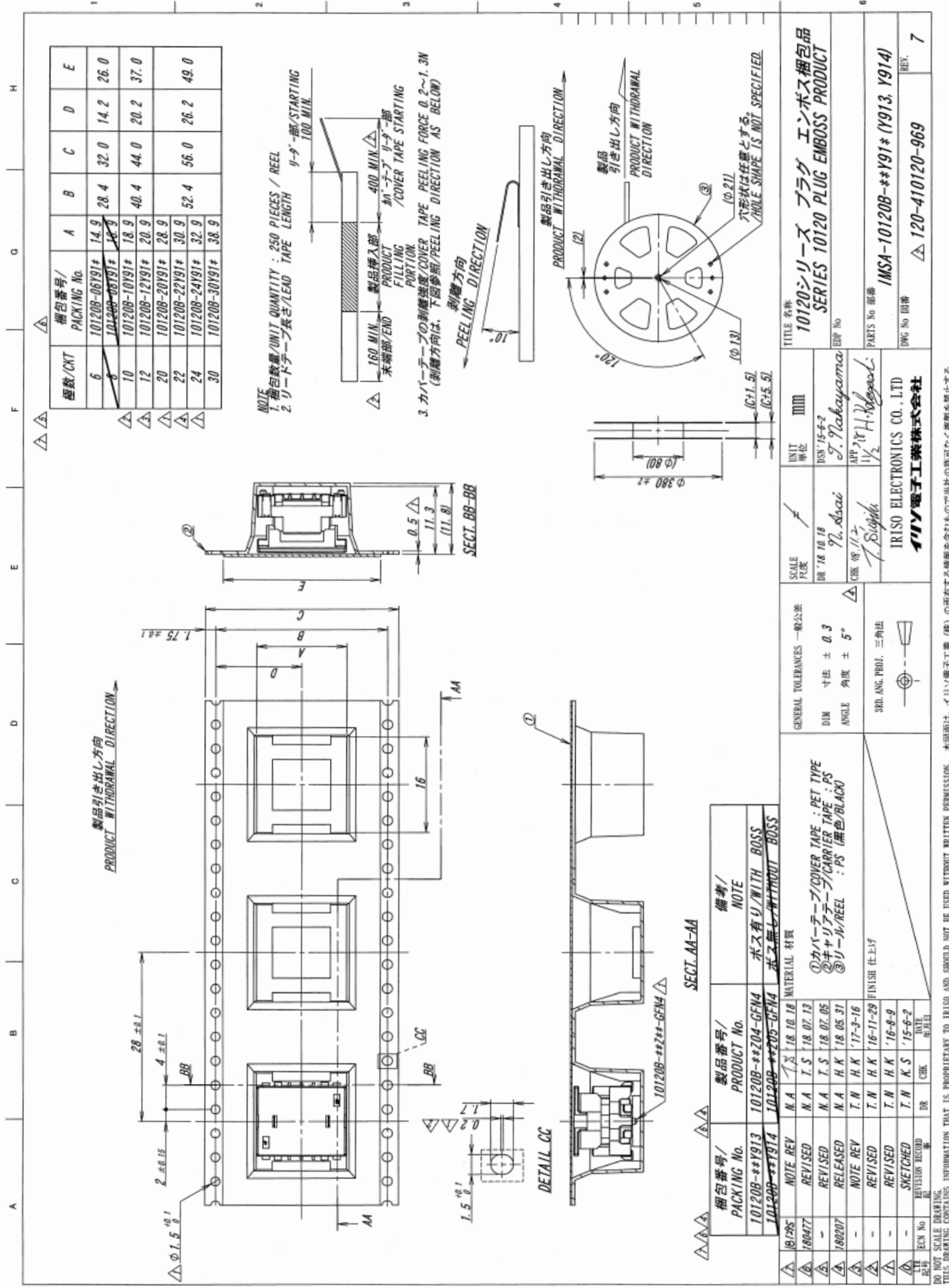
材質 材質 ①PS $t = 0.8$ 透明/CLEAR 帯電防止/ANTISTATIC	GENERAL TOLERANCES 一般公差 DIM 寸法 ± 0.5 ANGLE 角度 $\pm 5^\circ$
FINISH 仕上げ	3RD. ANG. PROJ. 三角法 

SCALE 尺度	≠	UNIT 單位	mm
DR '18.10.18	9. Saei	DSN '18.2.27	T. Sugiki
CHK '18.11.2	T. Sugiki	APP. '18. H. Kobayashi 1/2	
IRISO ELECTRONICS CO., LTD			
IIR 電子工業株式会社			

TITLE 名称	10120 シリーズ ソケット プリスター-梱包品 SERIES 10120 SOCKET BLISTER PRODUCT
EDP No	
PARTS No 部番	1MSA-10120S-**-Y504 (505)
DWG No 図番	△ 120-410120-722
	REV. 3

DO NOT SCALE DRAWING.
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO IRISO AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. 本図面は、イリソ電子工業（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。

PLUG PACKAGING DRAWING

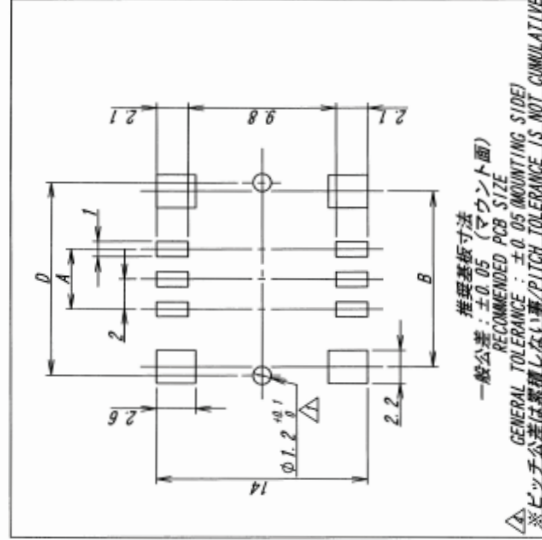
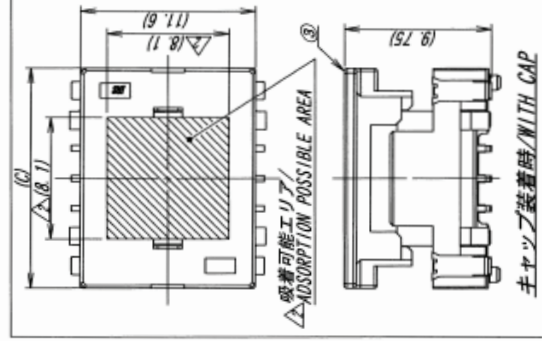
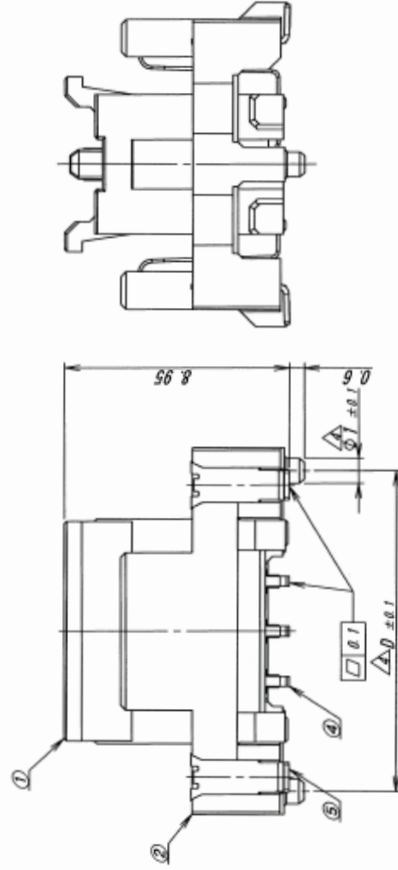
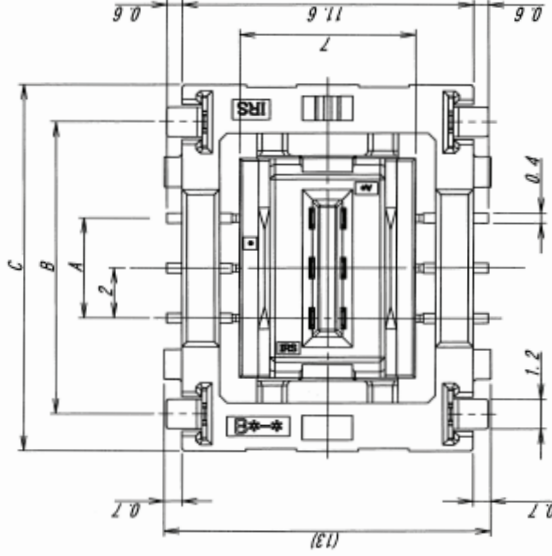
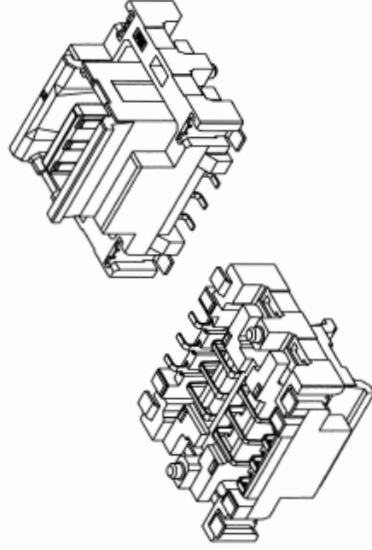


PLUG DRAWING

製品番号 PRODUCTS No.	ボス/BOSS
T01208-**Z04-GFN4	ボス有りWITH BOSS
T01208-**Z05-GFN4	ボス無しWITHOUT BOSS

極數 CKT	製品番号 PRODUCT No.	A	B	C	D
6	101208-06Z**-GFN4	4.0	11.7	14.7	12.85
8	101208-08Z**-GFN4	6.0	13.7	16.7	14.85
10	101208-10Z**-GFN4	8.0	15.7	18.7	16.85
12	101208-12Z**-GFN4	10.0	17.7	20.7	18.85
20	101208-20Z**-GFN4	18.0	25.7	28.7	26.85
22	101208-22Z**-GFN4	20.0	27.7	30.7	28.85
24	101208-24Z**-GFN4	22.0	29.7	32.7	30.85
30	101208-30Z**-GFN4	28.0	35.7	38.7	36.85

△ NOTE
1. コプランナリティ/COPLANARITY: 0.1MAX

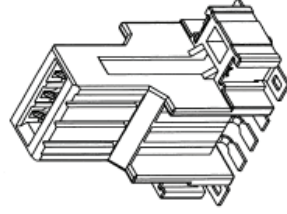


10120シリーズ プラグ SERIES 10120 PLUG										TITLE 名称	
										UNIT 単位	mm
										EXP No	
										PARTS No 部番	
IRISO ELECTRONICS CO., LTD										IRMSA-10120B-**Z**-GFNA (Z04, Z05)	
電子工業株式会社										DWG No 図番	
110-410120-406										REV. 7	

GENERAL TOLERANCES 一般公差										SCALE 尺度		TITLE 名称	
DIN 寸法 ± 0.3										DW: 18 10 18		UNIT 単位	
ANGLE 角度 ± 5°										CER: 15 118		EXP No	
3RD ANG. PROJ. 三角法										APP: 18 118		PARTS No 部番	
△										DW: 18 10 18		IRMSA-10120B-**Z**-GFNA (Z04, Z05)	
①ベース/BASE: PAST. 黑色 BLACK										DW: 18 10 18		UNIT 単位	
②ソルダー/FLUX: PASTE 白色 WHITE										CER: 15 118		EXP No	
③端子/CONTACT: COPPER 銅色 BRONZE										APP: 18 118		PARTS No 部番	
④挿接部/METAL FLANGE: 黄銅 BRASS										DW: 18 10 18		IRMSA-10120B-**Z**-GFNA (Z04, Z05)	
MATERIAL 材質										DW: 18 10 18		UNIT 単位	
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④挿接部/METAL FLANGE: 黄銅 BRASS										CER: 15 118		EXP No	
FINISH 仕上げ										DW: 18 10 18		UNIT 単位	
①下地めっき/UNDER PLATE										APP: 18 118		PARTS No 部番	
②めっき/PLATE 接触部/CONTACT AREA: 0.12mm ² /MIN										DW: 18 10 18		IRMSA-10120B-**Z**-GFNA (Z04, Z05)	
③めっき/PLATE 非接触部/TAI AREA: 0.03mm ² /MIN										CER: 15 118		EXP No	
④めっき/PLATE 2-1mm										APP: 18 118		PARTS No 部番	
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REVISION RECORD										DW: 18 10 18		IRMSA-10120B-**Z**-GFNA (Z04, Z05)	
ECN No										CER: 15 118		EXP No	
DWG No										APP: 18 118		PARTS No 部番	
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ECN No										CER: 15 118		EXP No	

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短紋 CNT	製品番号 PRODUCT No.	A	B	C	D	E	F
△ 6	10120S-062** -GFN4	4.0	10.5	14.0	7.4	12.0	12.5
△ 10	10120S-102** -GFN4	8.0	14.5	18.0	11.4	16.0	16.5
△ 20	10120S-202** -GFN4	18.0	24.5	28.0	21.4	26.0	26.5
△ 30	10120S-302** -GFN4	28.0	34.5	38.0	31.4	36.0	36.5



Technical drawing of a 16-pin DIP package showing dimensions and tolerances:

- Dimensions:**
 - E : Total height
 - A : Height from mounting surface to top of package
 - 2 : Distance from mounting surface to bottom of package
 - 1.4 : Distance from mounting surface to center of package
 - B : Total width
 - 2.25 : Distance from mounting surface to center of package
 - 9.7 : Distance between mounting holes
 - 8.8 : Distance between mounting holes (tolerance $\Delta 0.8$)
 - 3.65 : Distance between mounting holes (tolerance $\Delta 0.3$)
 - 10.1 : Distance between mounting holes (tolerance $\Delta 0.1$)
- Tolerances:**
 - $\Delta 0.8$
 - $\Delta 0.3$
 - $\Delta 0.1$
- Notes:**
 - 推奨基準寸法 (Recommended Standard Dimensions)
 - 一般公差: ± 0.05 (マウント面) (General Tolerance: ± 0.05 (Mounting Surface))
 - RECOMMENDED PCB SIZE (推奨PCB寸法)
 - GENERAL TOLERANCE: ± 0.05 (MOUNTING SIDE) (一般公差: ± 0.05 (マウント面))
 - ※パッケージは標準的な1英寸PITCH TO PITCH IS NOT CIRCUMFERENCE (Note: Package is standard 1 inch PITCH TO PITCH IS NOT CIRCUMFERENCE)

SCALE 尺度	≠	UNIT 單位	mm
DR 7/8 10 18	N. Asai	DATE 15-1-22	
CHK 15 112	T. Sugita	BY 15 H. Kogoshi	
TRISO ELECTRONICS CO., LTD			
三井電子工業株式会社			

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ABOUT

IRISO ELECTRONICS



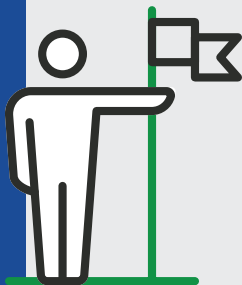
It started with a single pin...

IRISO has been contributing to the development of the electronics industry worldwide for over 50 years since its foundation as a comprehensive connector manufacturer in 1966. Our more than 3000 employees support customers worldwide on a wide range of innovative new products designed to meet the needs of our industry both today and tomorrow.



Connected with our customers...

Our customers are at the core of our business. Based on the concept of “market-in”, we develop and manufacture products that are closely linked to customer needs. We listen carefully to customer feedback, verify any issues that may exist in all processes from concept to the production line, and incorporate the feedback into the product design. We take a consultative approach to developing custom products in order to ensure a successful partnership.

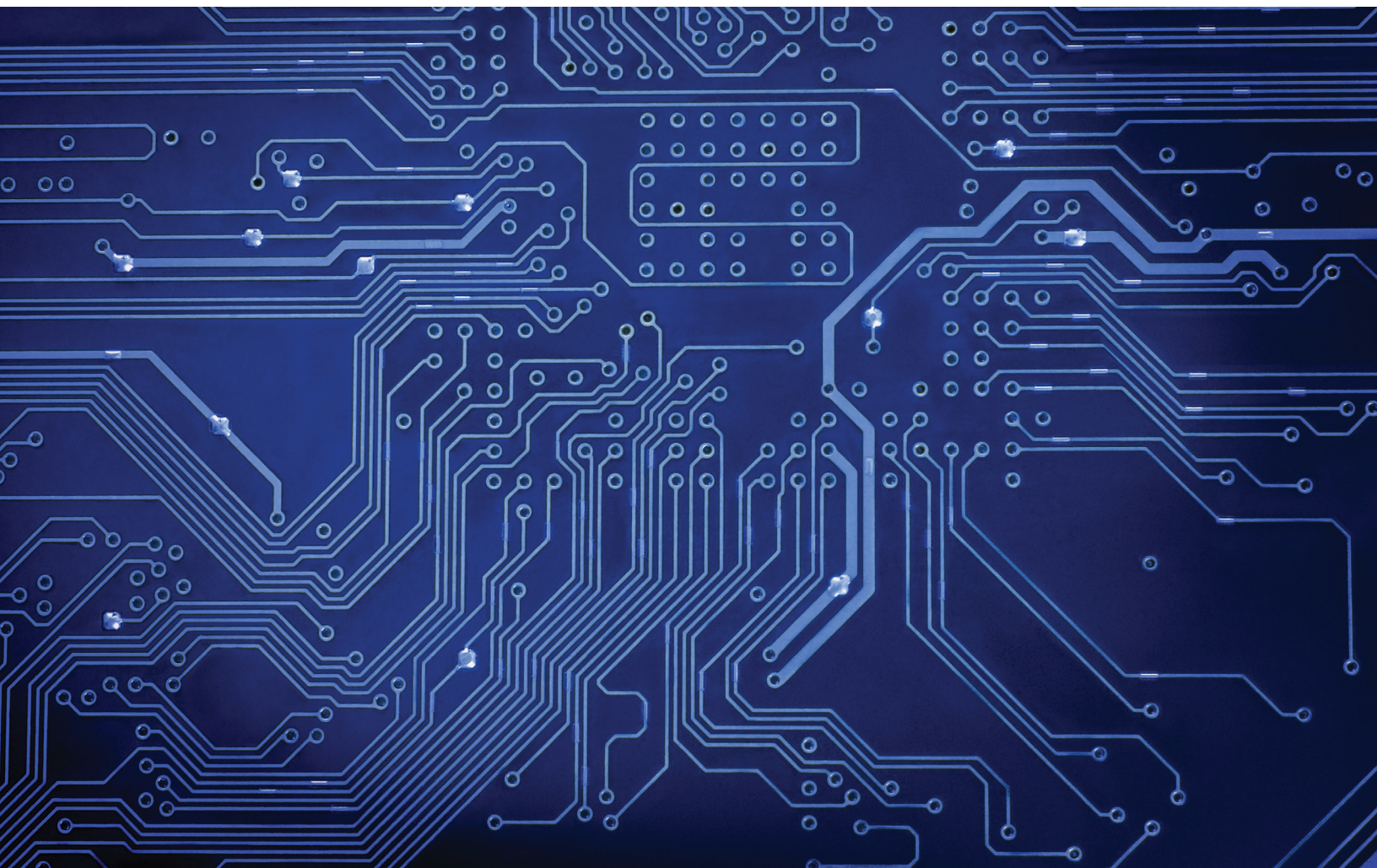


As a bridge to the future...

With beginnings in the Car AV and electronics, IRISO has established itself as a leading company in the development of connectors for the automotive market. For more than fifty years we have continued to devote ourselves to developing the field of electronics. Over the years, we have significantly expanded the range of our automotive product development to include a wide range of connectors for ADAS, electric powertrain and infotainment applications of today and tomorrow.

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