Notes.
1. Co-planarity is within 0.1 mm.

2. As for part No.4 the performance remains good though there might be a difference in the plating luster between each plating lots.

3. Per reel : 450 pcs.
The vacuum cap(part No.5)is attached to this product at delivery.

4. Refer to the mated condition diagram for the panel thickness and layout.

5. This product is mounted by reflow soldering.
Refer to specification sheet ELC-129412-00-00 for reflow soldering.

A-A

(0.7)
(0.95) : Straight part
(1.65)

Production Lot

11 ±0.2
4.8 ±0.2
4 ±0.08
2 ±0.08
0.25 ±0.08
(R0.2)
Contact No.1
Contact No.5
3×R0.5 ±0.2
C1 ±0.1
2×0.6 ±0.15
7.8 ±0.2
2×1.4 ±0.15
Contact No.10
Contact No.6
0.25 ±0.08
2 ±0.08
4 ±0.08
5.5 ±0.2

9 ±0.2
0.4 ±0.05
3.5 ±0.2
1.75 ±0.2
1.5 ±0.2
6.6 ±0.3
5 ±0.15
1.5
(R0.2)
(C0.3)
1.2 ±0.1

4 ±0.25 (Lead)
2 ±0.25 (Lead)
0.25 ±0.15 (Lead)
Contact No.5
Contact No.1
2.1 ±0.2
7.8 ±0.3 (Lead)
∅1.2 ±0.1
Contact No.6
Contact No.10
10×0.25 ±0.05 (Lead width)
0.25 ±0.15 (Lead)
3.075 ±0.1
2 ±0.25 (Lead)
4 ±0.25 (Lead)

3D image

10 ±0.3
9 ±0.3
0.4 ±0.05

HRS DRAWING FOR REFERENCE

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
			7	PET	
3	Stainless Steel		6	PS	
2	PA	Gray、UL94V-0	5	PA	Black、UL94V-0
1	Copper Alloy	Contact area : Gold 0.2μm min. Lead area : Gold 0.03μm min. Under plating : Nickel 2μm min.	4	Stainless Steel	Surface : Tin 1μm min. Under plating : Nickel 0.2μm min.

UNITS mm		SCALE 5:1	COUNT 3	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
				DIS-E-00011281	SN. TOYOSHIMA	KI. KAGOTANI	2022.10.04
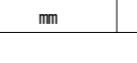
APPROVED : RI. TAKAYASU	2017.10.13	DRAWING NO.	EDC-129412-00-00
CHECKED : KI. NAGANUMA	2017.10.13	PART NO.	IX80G-A-10P
DESIGNED : YS. SAKODA	2017.10.13	CODE NO.	CL0251-0018-0-00
DRAWN : YS. SAKODA	2017.10.13		1/3

HRS HIROSE ELECTRIC CO., LTD.

FORM HC0011-5

Reference PCB Layout (Connector Mounting Side) (t=1.6)

9
4
2
0.25
0.25

10 × 0.6 (LAND)
Contact No.5
2 × 1.4 (LAND)
2 × 0.8 (TH)

Contact No.1
No conductive trace

8 × R0.6 (LAND)
8 × R0.3 (TH)

4.4
7.8
2.45
4.8
4.4
2.45

∅ 1.35 (HOLE)

Connector mounting area
Contact No.10

2 × 1.9 (TH)
2 × 2.5 (LAND)
2.1 ±0.05

Contact No.6
3.075 ±0.05

0.25
2
4
7.5
11

General tolerance is +/- 0.05
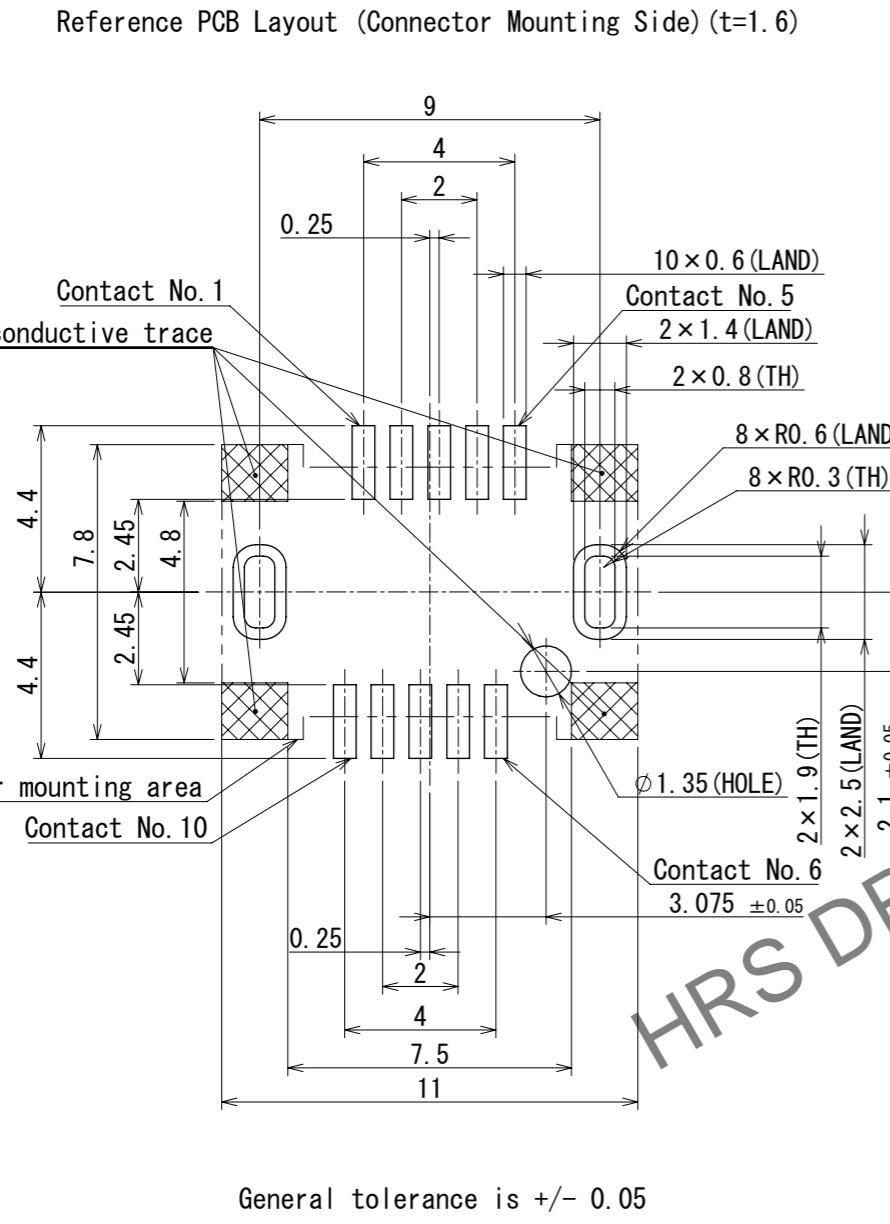
6 Reference Metal Mask Layout (t=0.15)

11
4
4
2
0.25
10 × 0.5

4.37
2.69
4.37
2.69
2.5

0.25

2
4

General tolerance is +/- 0.02

Mated Condition (Free)

IX30G-A-10S-CV (7.0)

iX industrial HRS

Panel 4

(0.55)
(9)
IX80G-A-10P

PCB

t=2
t=1.6
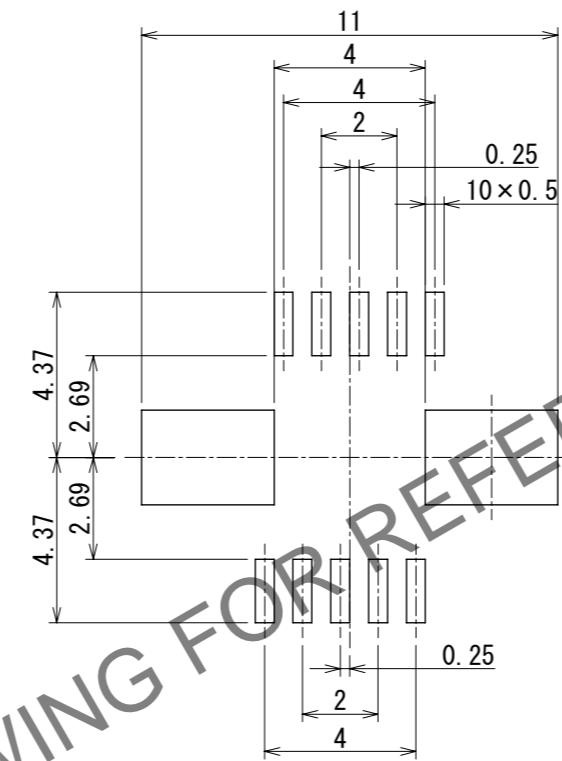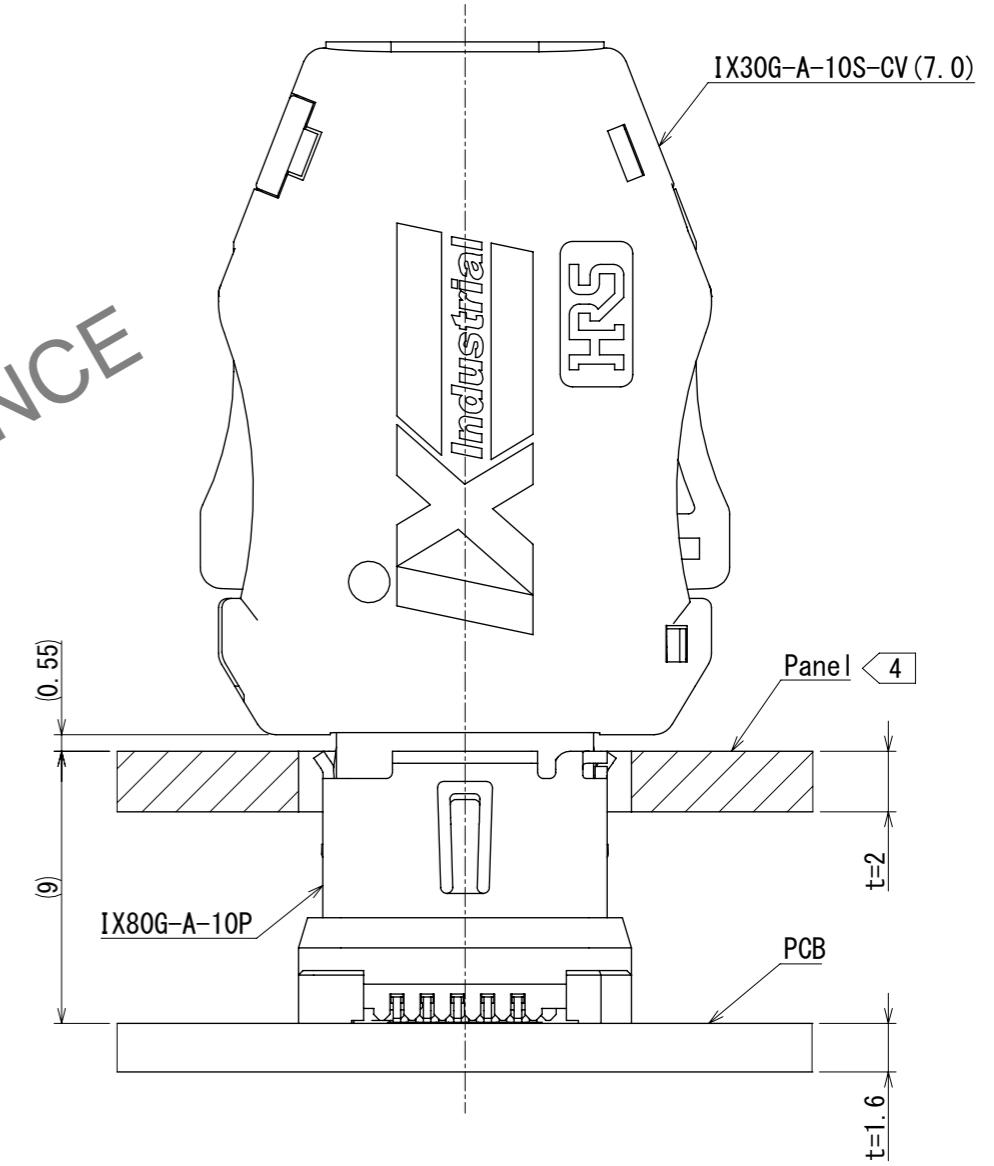
4 Reference Dimensions of Panel Cutout (Free)

11
6
8 × R0.3
4 × R1
6.2
7.8
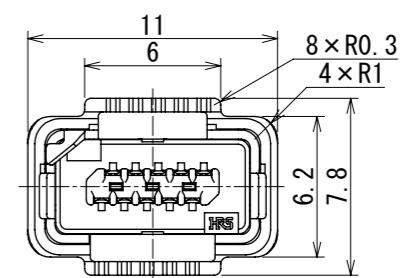
Notes. 6 Thickness of metal mask is 0.1mm min.
Metal mask dimensions of the drawings described, are reference dimensions for 0.15mm thickness metal mask.
Cange the metal mask dimensions by thickness of the metal mask, thickness of PCB, component of solder paste and mounting conditions.
Cange the metal mask dimensions in case of mounting IX80G-*-10P in parallel.
Cange the metal mask dimensions, if there are other mounting parts or implementation pattern around the portion of mounting position of IX80G-*-10P.

3 Drawing for packing(Free)

∅1.5 +0.1 / 0

4 ±0.1
(2)
16 ±0.1

Unreeling Direction

1.75 ±0.1
11.5 ±0.1
(22.25)
24 +0.3 / -0.1

⑦
Picking Area
(5.7)
(7.1)
⑥
⑤

(12.7)
(0.5)
(9.7)

Unreeling Direction

30.4max.
24.4 +2 / 0
∅380 ±2
(∅80)

Label (Part No., Code No., Lot No., Packing Quantity)
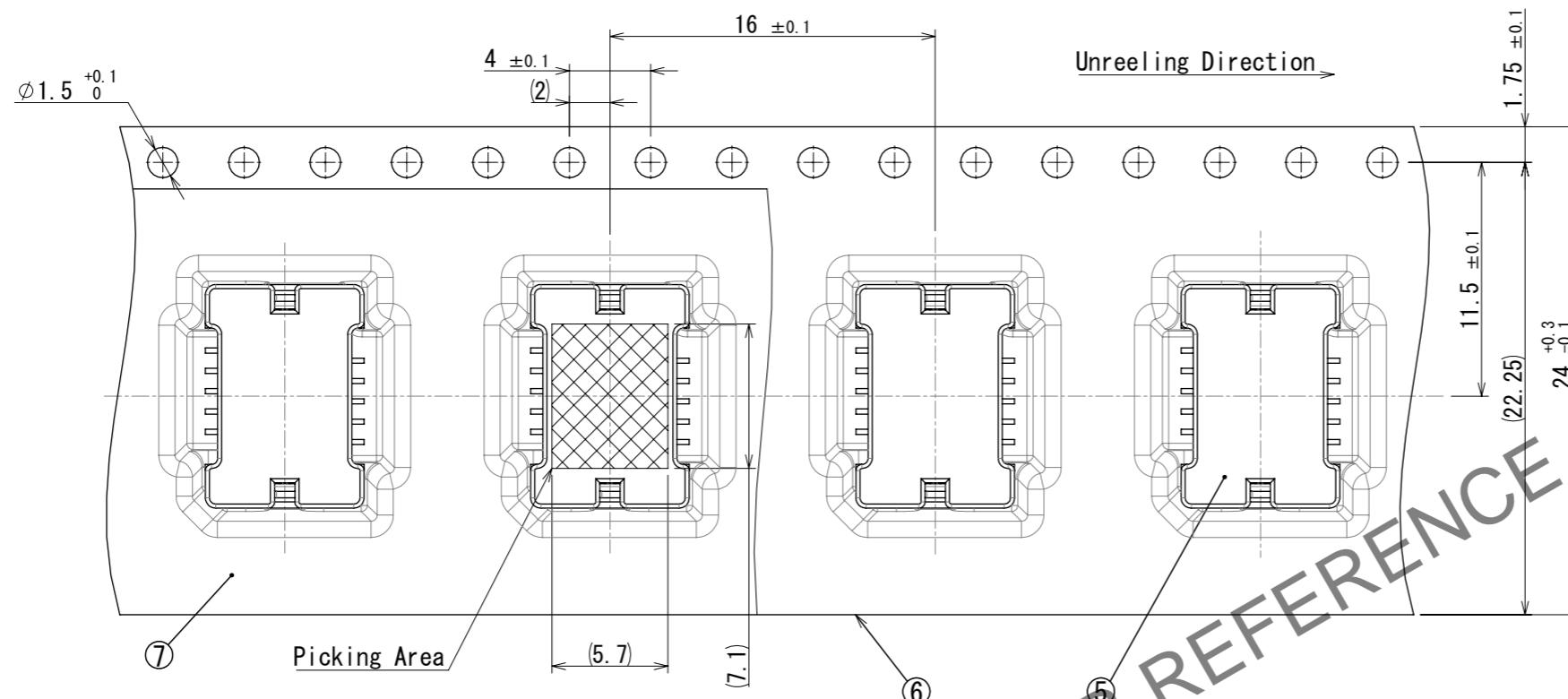
Notes. 7. This product(Type A) is defined for 10/100 Mbit/s and 1/10Gbit/s Ethernet communication. Please use Type B for all other non Ethernet applications like signaling, serial or other industrial bus communication systems.

Mating Shape

Type A   Type B
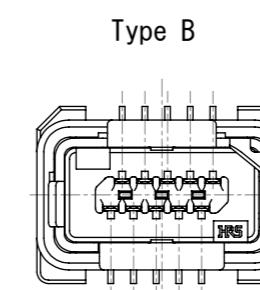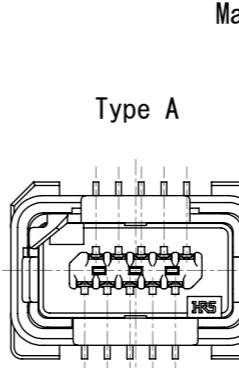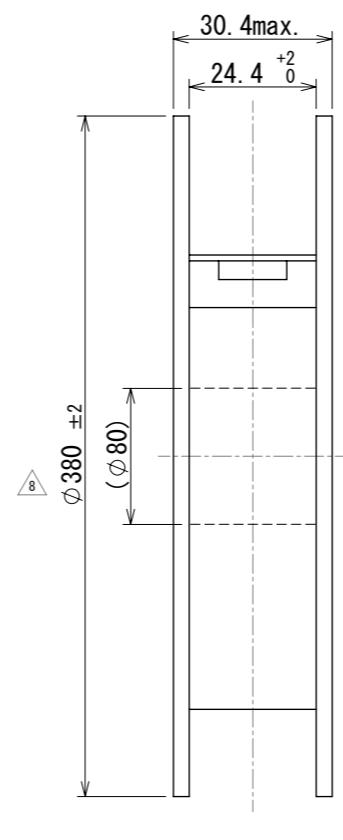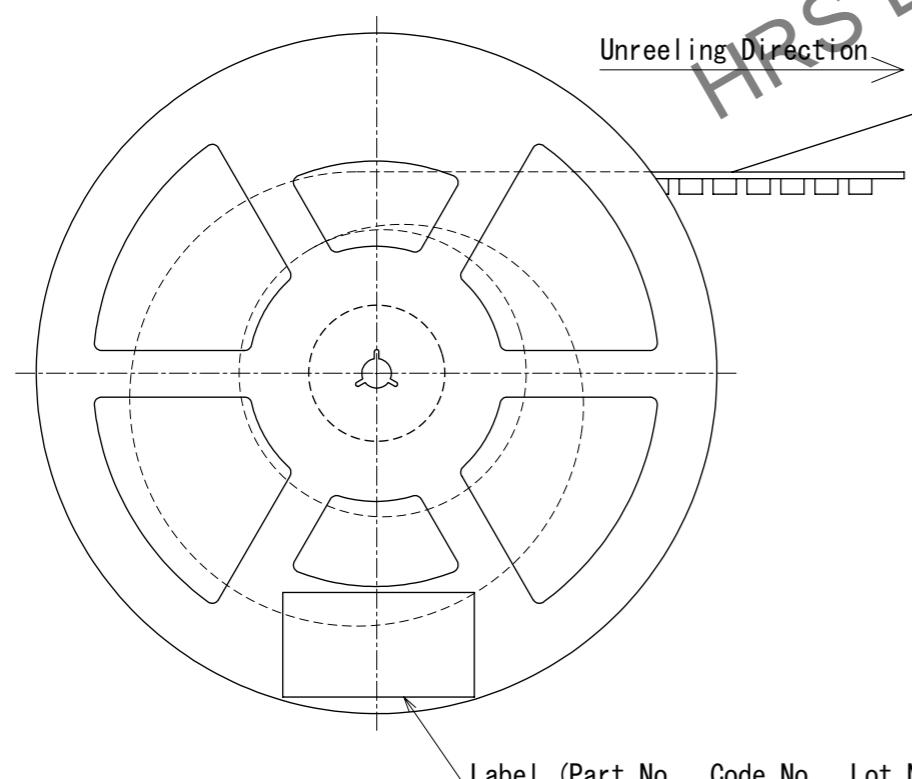
Pin Assignment for 10/100 Mbit/s and 1/10Gbit/s Ethernet

Contact No.	Signal	
	10/100 Mbit/s	1/10 Gbit/s
1	TX+	BI_DA+
2	TX-	BI_DA-
3	N.C	GND
4	N.C	BI_DC+
5	N.C	BI_DC-
6	RX+	BI_DB+
7	RX-	BI_DB-
8	N.C	GND
9	N.C	BI_DD+
10	N.C	BI_DD-

HRS DRAWING FOR REFERENCE

HRS

DRAWING NO.	EDC-129412-00-00
PART NO.	IX80G-A-10P
CODE NO.	CL0251-0018-0-00

3/3

FORM HC0011-28

3D Model File Name:CL0251-0018-0-00