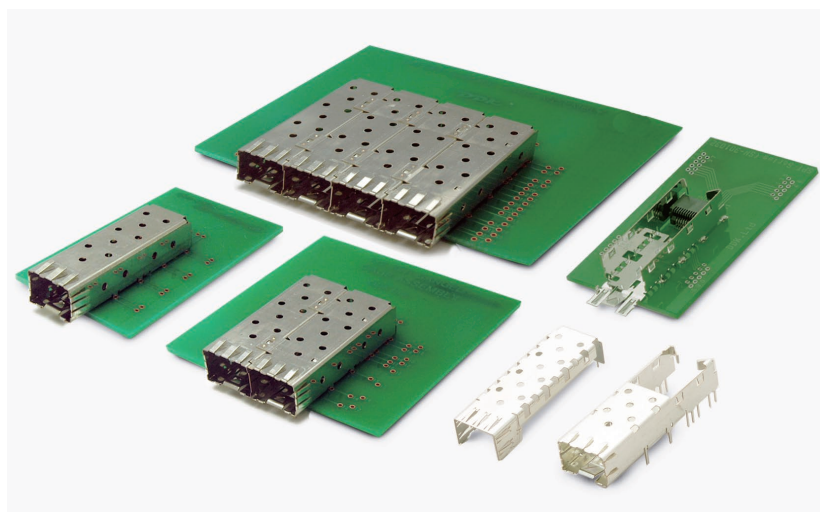


Small Form-factor Pluggable Connector

SPT Series

DDK Ltd.



OUTLINE

SPT series is a connector and cage which is compatible to Small Form-factor Pluggable(SFP/SFP+) specification of Multi-Source Agreement(MSA) for optical transceivers.

FEATURES

- 0.8mm pitch 20 pins SMT connector
- Excellent EMI shield
- Single port (Separate or one piece), 1by2 and 1by4 ganged cage styles are available.
- SMT, DIP or press-fit mounting styles are available.
- Cage serves as a guide rail for transceivers.
- RoHS compliant

APPLICATIONS

Fiber Channel, Gigabit Ethernet, High-end Server

SPECIFICATION

Rated Voltage	120V AC(r.m.s.)
Rated Current	0.5A / Contact
Dielectric Withstanding voltage	350V AC(r.m.s.) for 1 Minute
Insulation Resistance	100M Ω Min. at 250V DC
Contact Resistance	30m Ω Max.

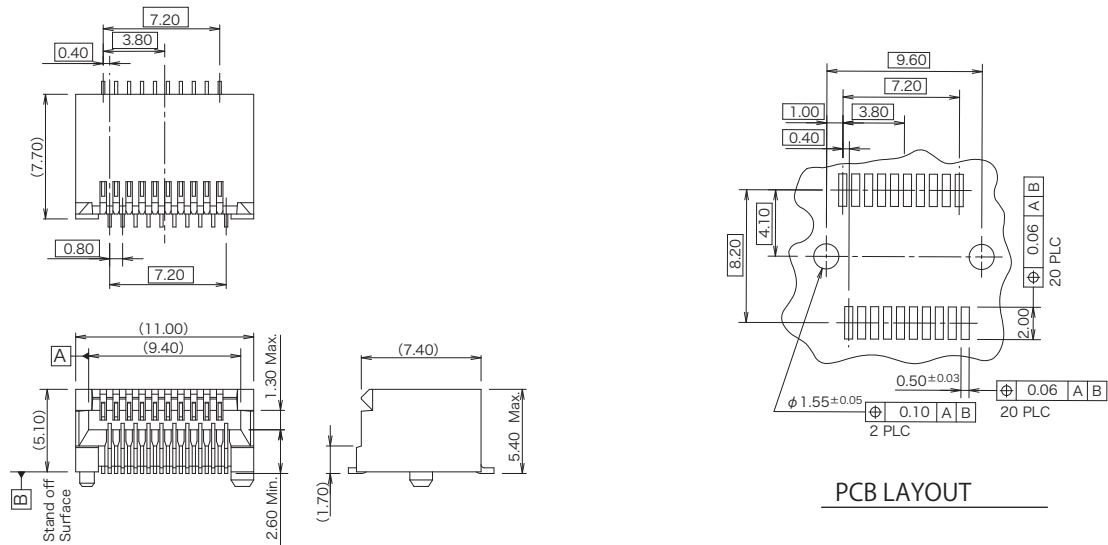
MATERIAL/FINISH



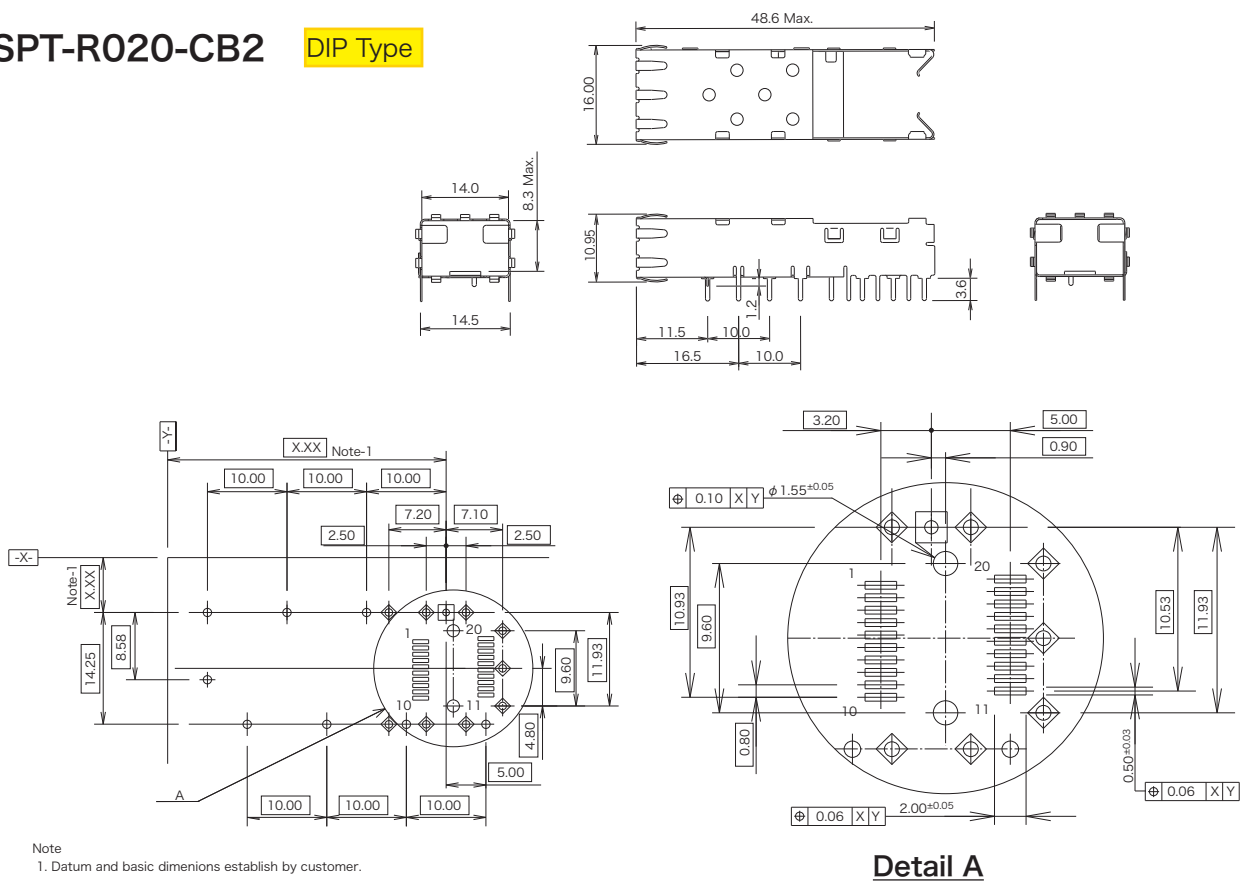
Item	Material / Finish
Contact	Copper Alloy / Contact area : Au over Ni Plating Tail area : Sn-Ag over Ni Plating
Housing	High Temperature Plastic / (UL-94V-0)
Cage	Copper Alloy / Sn-Reflow Plating

© Specifications and/or dimensions in this catalogue are subject to change without notice.
Your catalogue checking the latest specifications with our drawings would be highly appreciated.

SPT-RSB20B-12-FA



SPT-R020-CB2 **DIP Type**



Recommended PCB Layout

SPT-R020-CBS

SMT Type

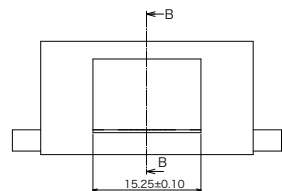


1. Datum and basic dimensions establish by customer.

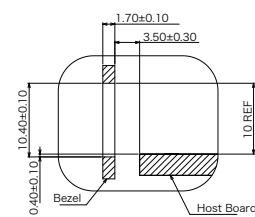
SPT-HANA-CAGE-1P-FS

Press Fit type

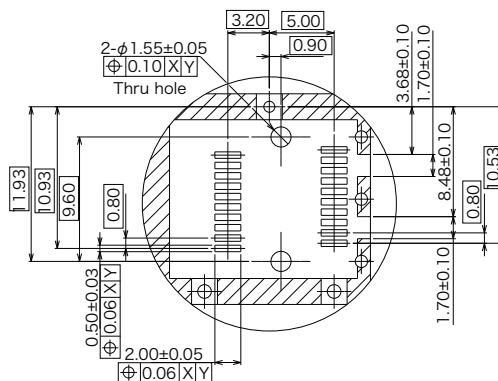
SFP+ Cage



Recommended Bezel Design



Detail B-B



Detail A

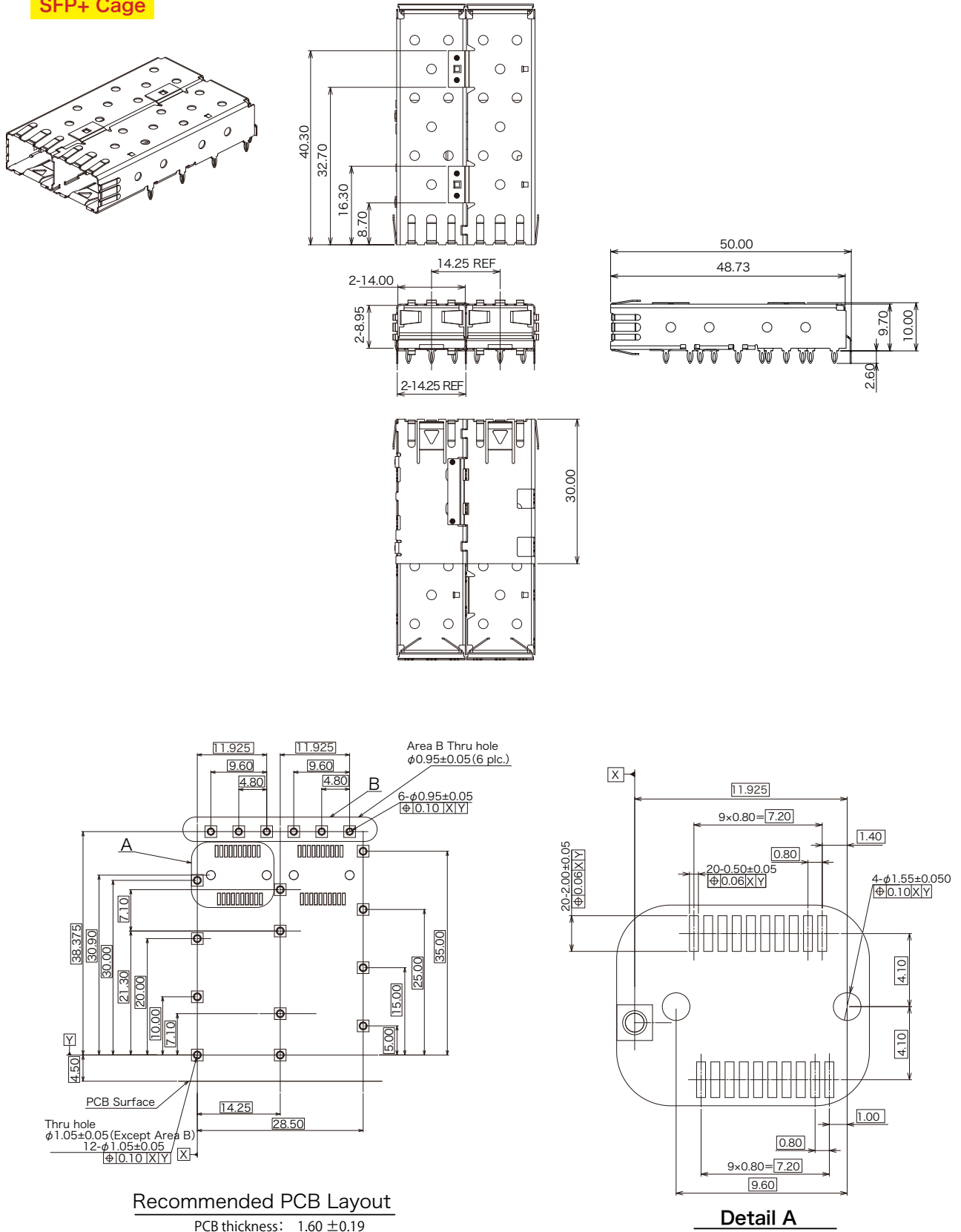
<http://www.ddknet.co.jp>

▶ 1 by 2 Ganged Cage

SPT-HANA-CAGE-2P-FS

Press Fit type

SFP+ Cage

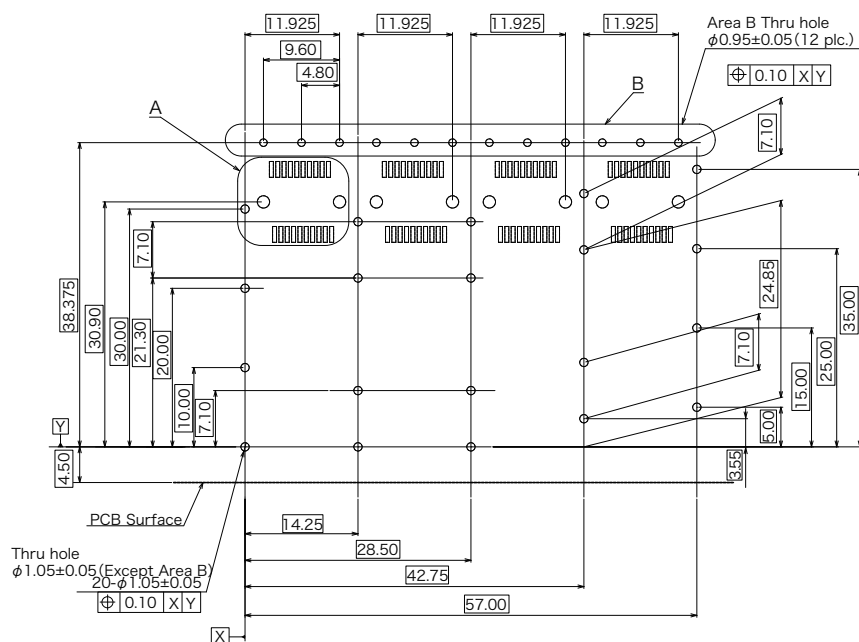
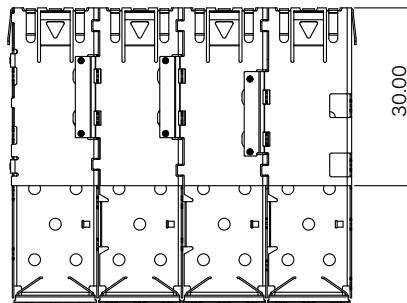
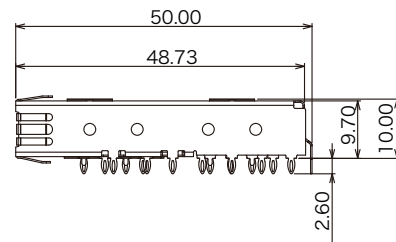
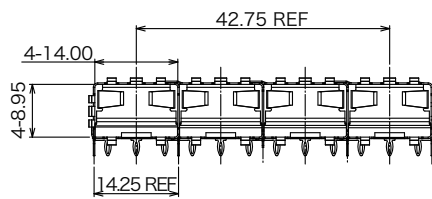
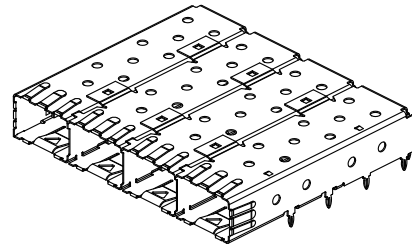


SPT-HANA-CAGE-4P-FS **Press Fit type**

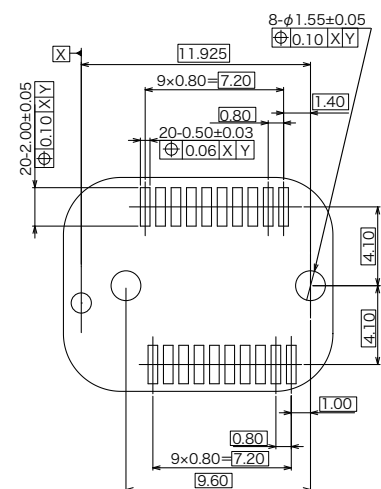
Technical drawing of a wall section showing dimensions and reinforcement details. The drawing includes a cross-section of the wall with reinforcement bars (circles) and stirrups (rectangles). The dimensions are as follows:

- Total height: 40.30
- Height from base to first reinforcement level: 32.70
- Height from base to second reinforcement level: 16.30
- Height from base to third reinforcement level: 8.70

The drawing also shows the placement of reinforcement bars and stirrups within the wall section.



PCB Thickness : 1.60±0.19



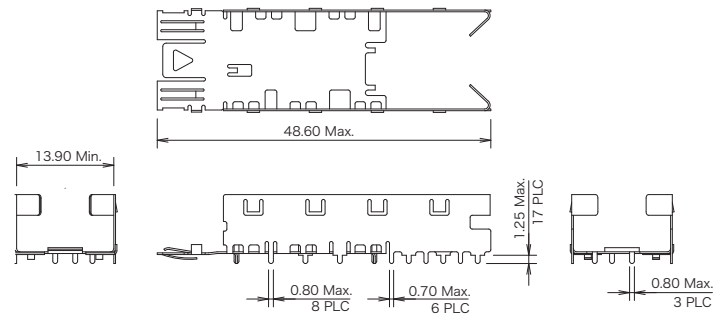
Detail A

5

▶ Separate Type(Lower Cage)

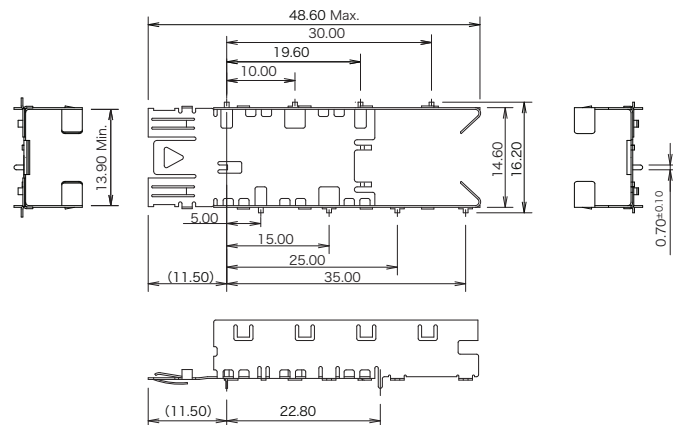
SPT-R020-CL-FS

DIP Type



SPT-R020-CLA-FS

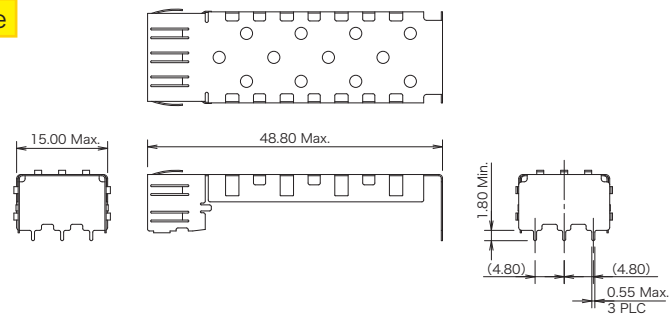
SMT Type



▶ Separate Type(Top Cage)

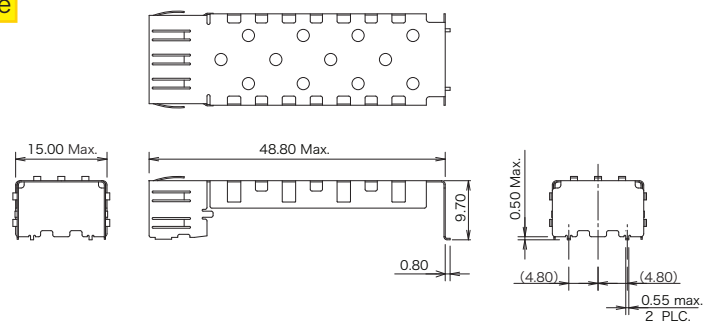
SPT-R020-CT-FS

DIP Type



SPT-R020-CTB-FS

SMT Type



PCB Mounting Dimensions

PCB Mounting Type	Cage Combination	
	Top Cage	Lower Cage
A	SPT-R020-CT-FS	SPT-R020-CL-FS
B	SPT-R020-CTB-FS	SPT-R020-CLA-FS
C	SPT-R020-CT-FS	SPT-R020-CLA-FS

○ : $\phi 1.15 \pm 0.05$ TH $\oplus 0.10 \times Y$

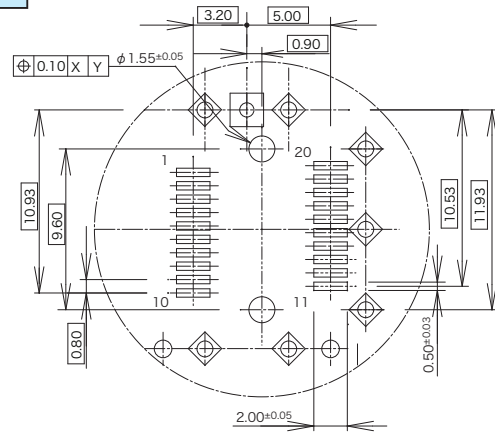
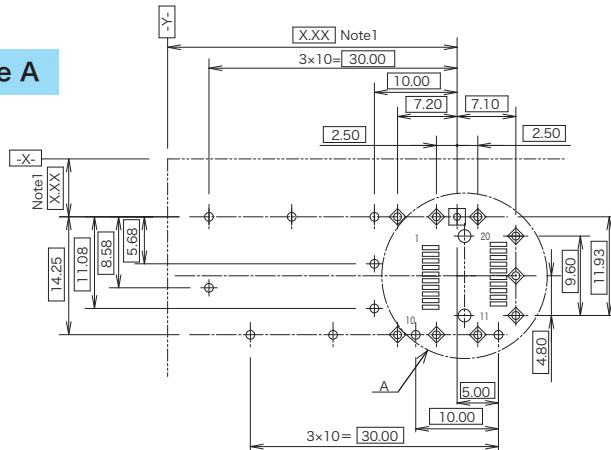
□ : $\phi 0.85 \pm 0.05$ TH $\oplus 0.10 \times Y$

◇ : $\phi 0.95 \pm 0.05$ TH $\oplus 0.10 \times Y$

Note

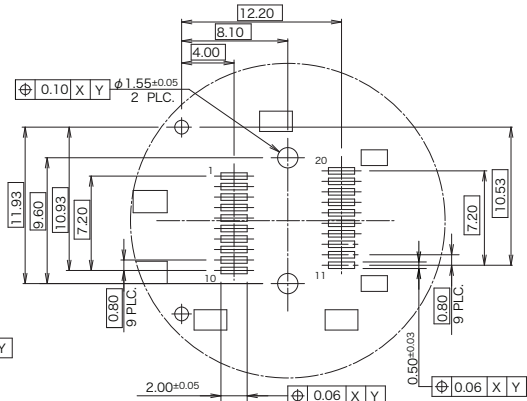
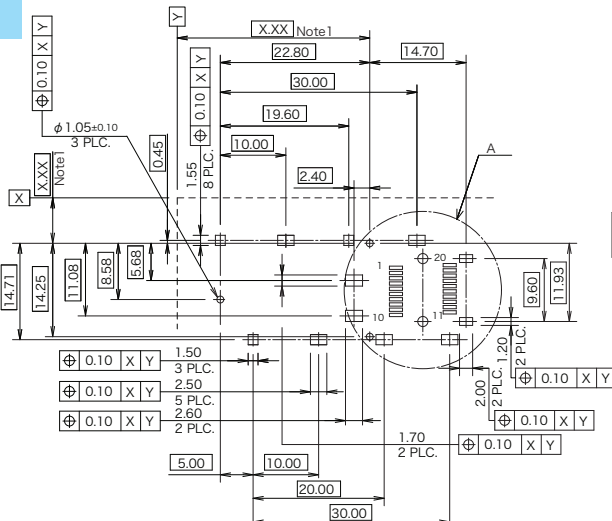
1. Datum and basic dimensions establish by customer.

Type A



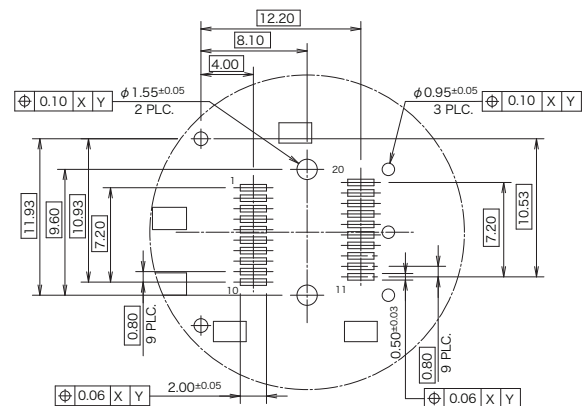
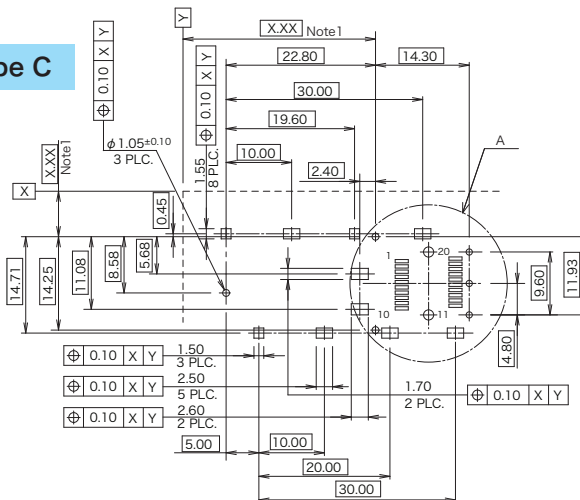
Detail A

Type B



Detail A

Type C



Detail A