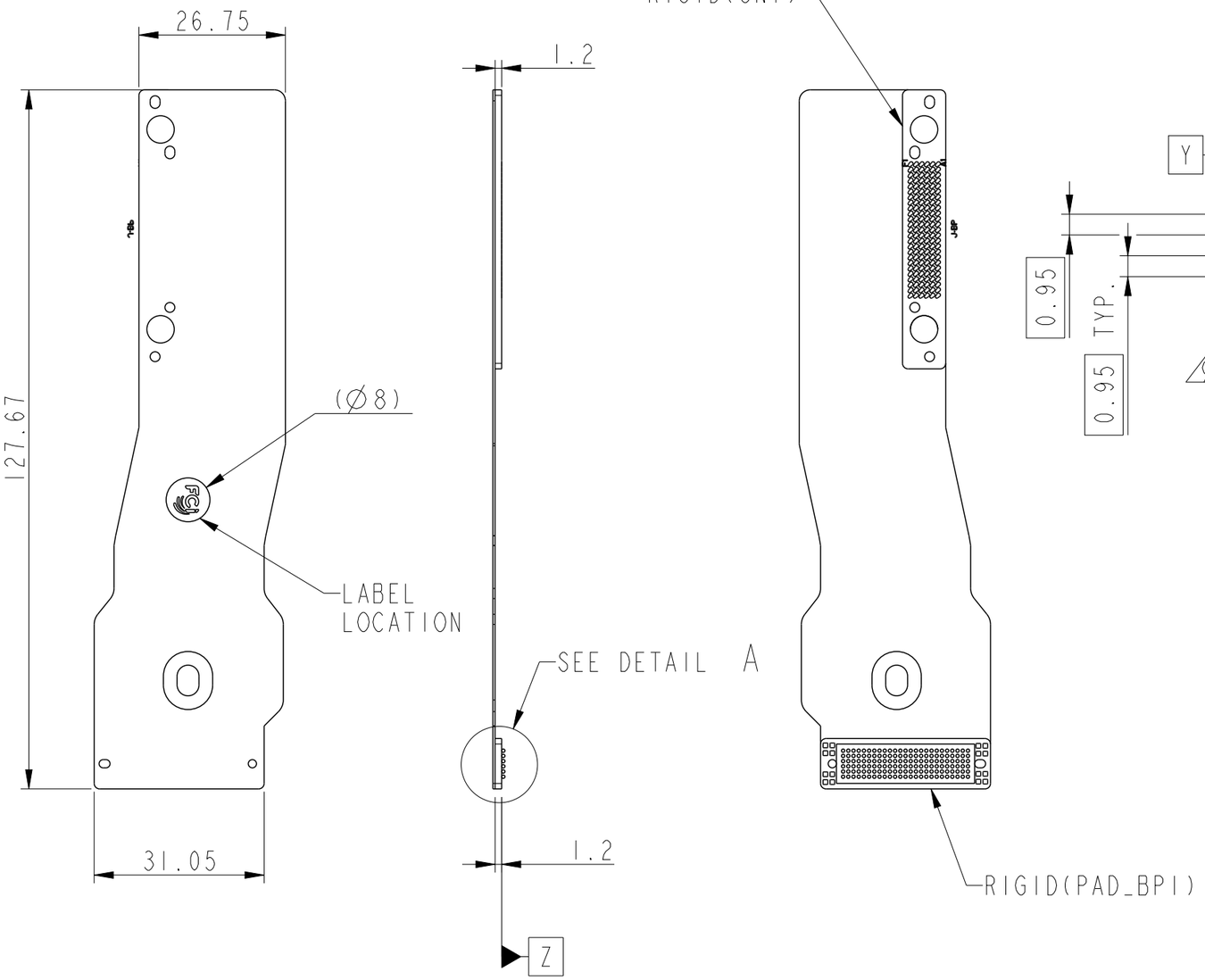
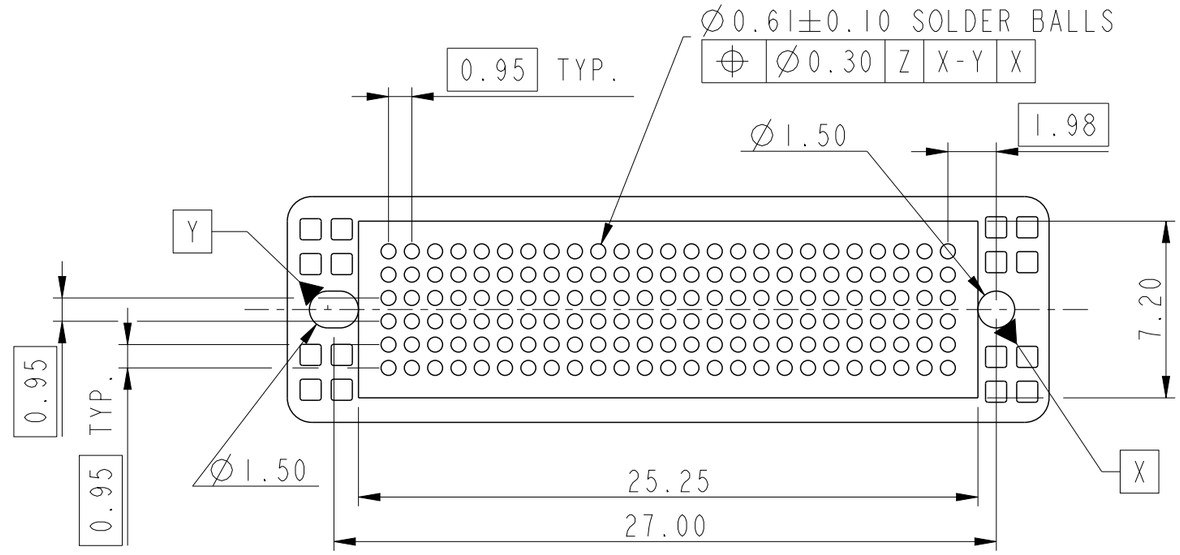
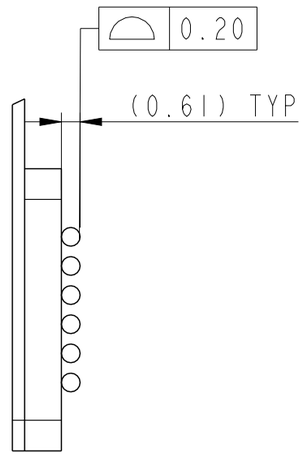
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14430TxLF | 550.00501.0011 | 6X25 |
| 10129553-14430MxLF | 550.00501.0001 | |
| 10129553-14430WxLF | 550.00501.0021 | |




DETAIL A
SCALE 5:1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | |
| | | | | chr | Heaven Cen | 2016/12/07 | | |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family | - |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title | Flex Cable BGA Assembly | dwg no | 10129553 |
| | | 0.XX | ±0.20 | | | Brawn | | |
| | | 0.XXX | ±0.10 | | | | | |
| | angular | 0° | ±2° | | cat. no. | - | Product - Customer Drw | |

| size | scale | rev |
|---|---|---|
| A3 | 1:1 | B |
| ecn no | ELX-DG-25561-1 | |
| rel level | Released | |
| sheet 1 of 11 | | |

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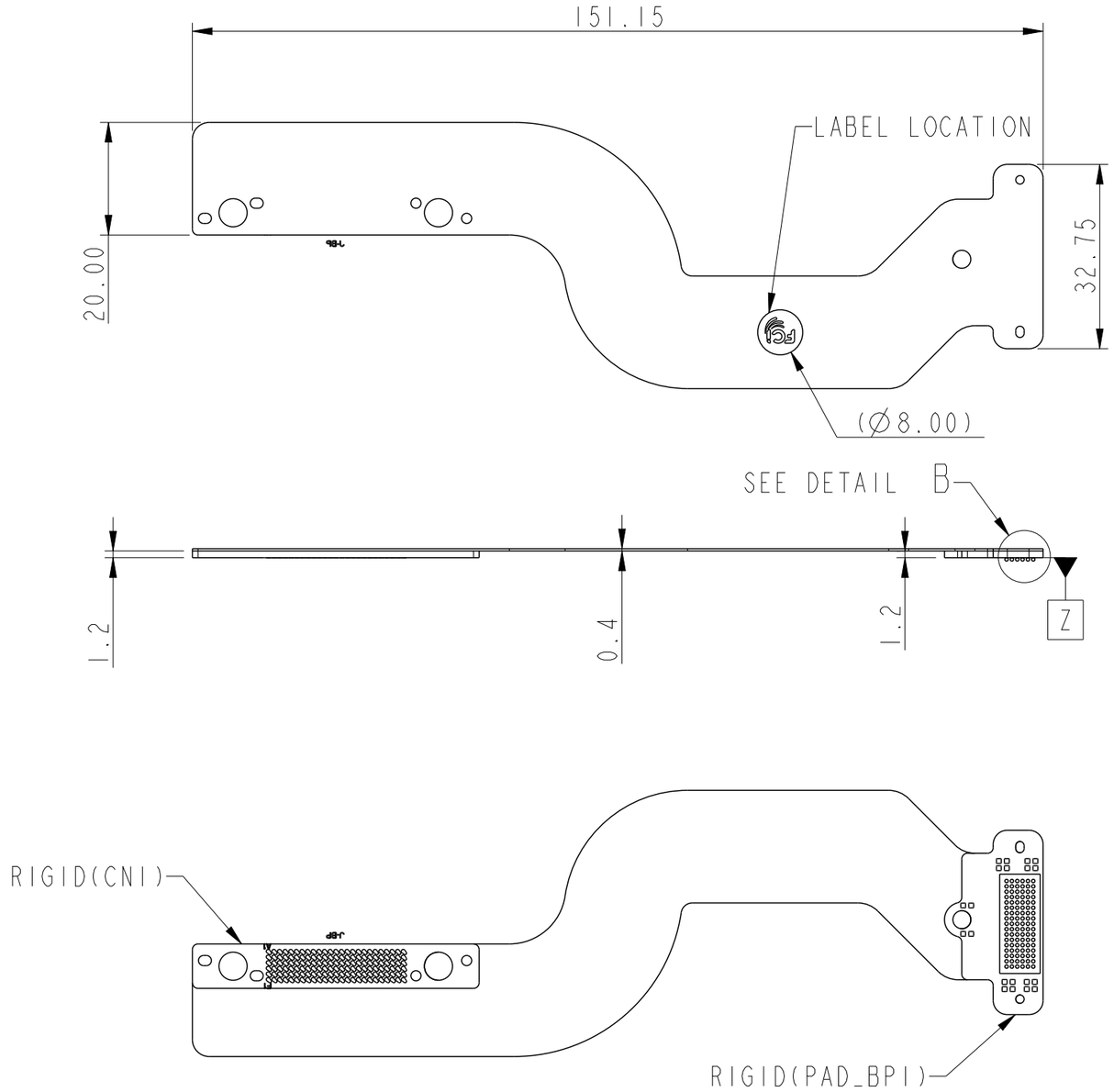
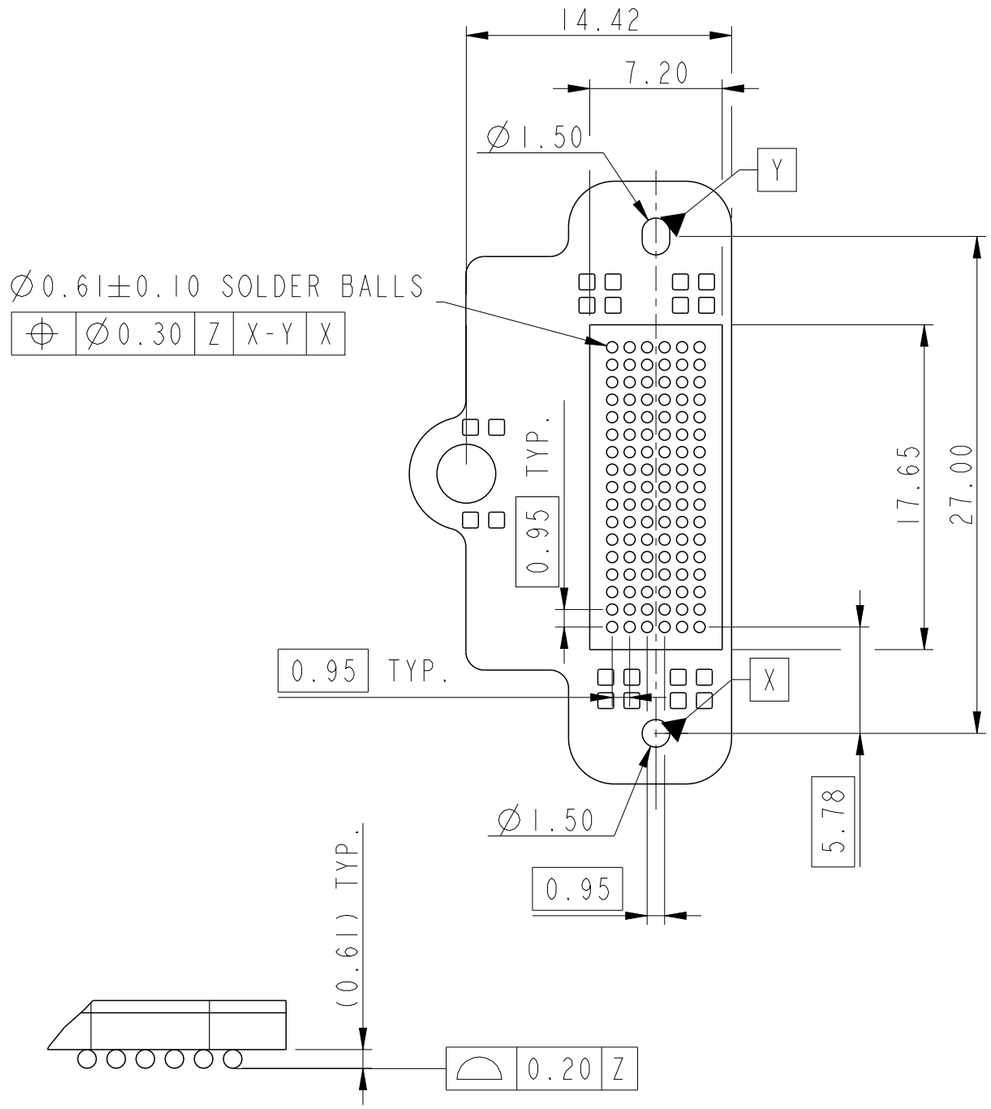
Creo File - REV E - 2016-02-12

| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14426TxLF | 550.00609.0001 | 6X17 |
| 10129553-14426MxLF | 550.00609.0011 | |
| 10129553-14426WxLF | 550.00609.0021 | |




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 / scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family - | | rel level Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title: Flex Cable BGA Assembly Brawn | | dwg no 10129553 | | rev B |
| | | 0.XX | ±0.20 | | | | | | |
| | | 0.XXX | ±0.10 | | | | | | |
| | angular | 0° | ±2° | | cat. no. - | | Product - Customer Drw | | sheet 2 of 11 |

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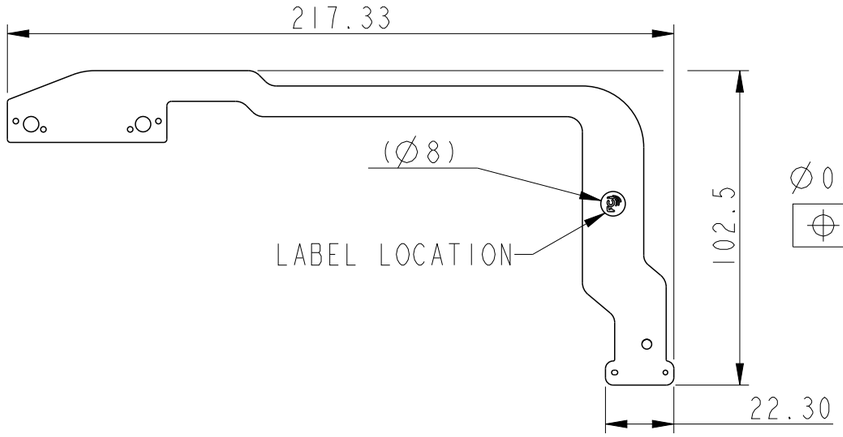
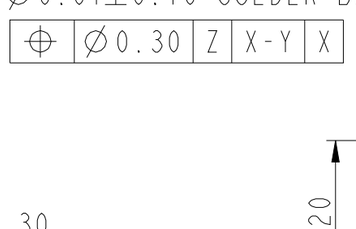
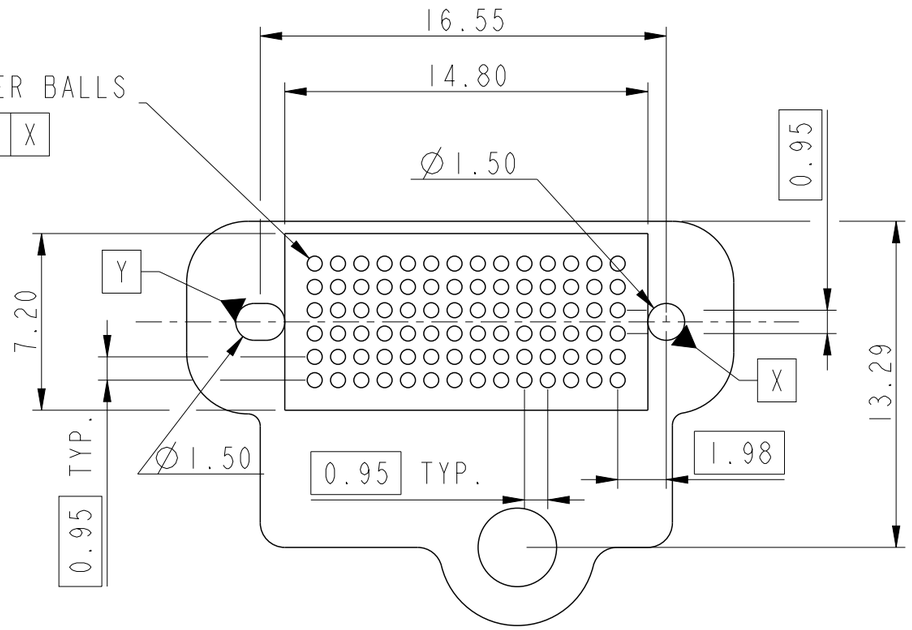
Creo File - REV E - 2016-02-12

PDS: Rev :B STATUS:Released Printed: Dec 07, 2016

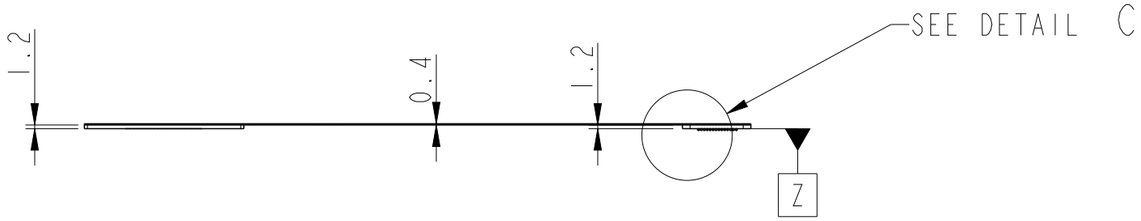
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14425TxLF | 550.0060A.0001 | 6X14 |
| 10129553-14425MxLF | 550.0060A.0011 | |
| 10129553-14425WxLF | 550.0060A.0021 | |

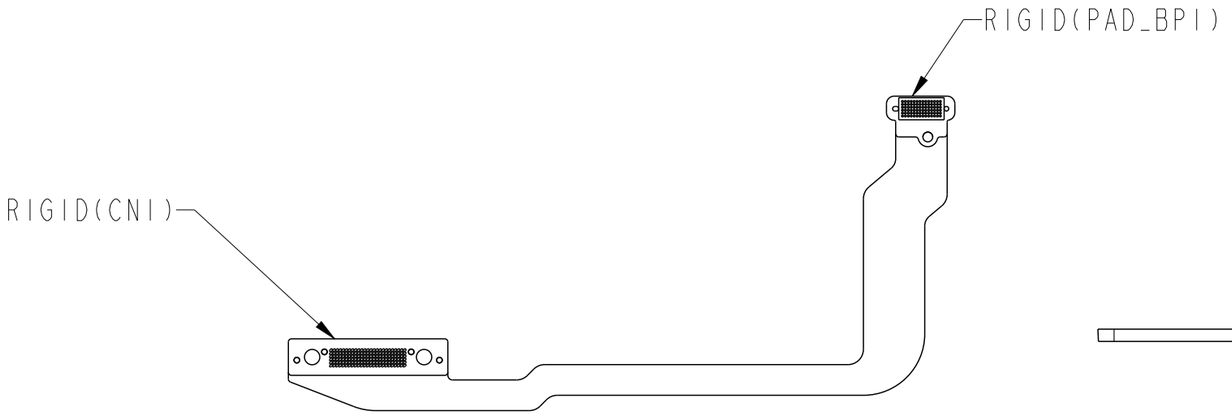


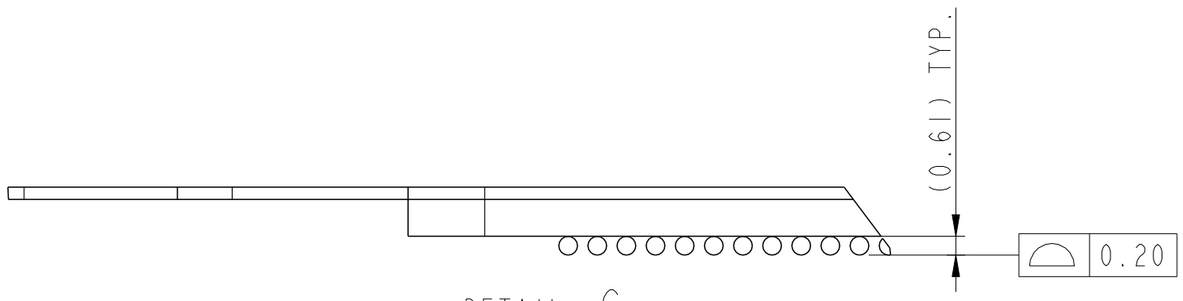




SCALE 4:1




DETAIL C
SCALE 5:1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 | scale 1:2 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no | ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | appr | Pei-Ming Zheng | 2016/12/07 | product family | - | | |
| | | 0.XX | ±0.20 | | | | | | | |
| | | 0.XXX | ±0.10 | | | | | | | |
| | angular | 0° | ±2° | | | | | | | |

Amphenol FCi

title: Flex Cable BGA Assembly
Brawn

dwg no: 10129553

rev: B

cat. no. - | Product - Customer Drw | sheet 3 of 11

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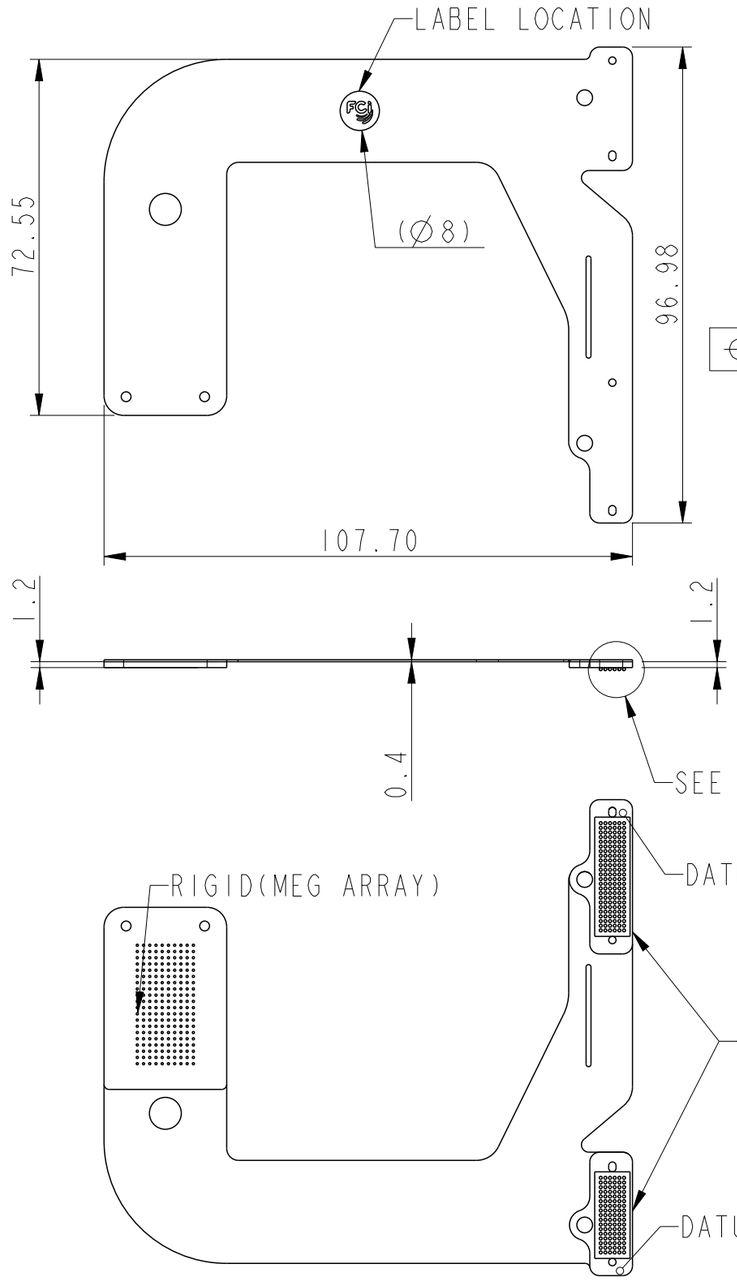
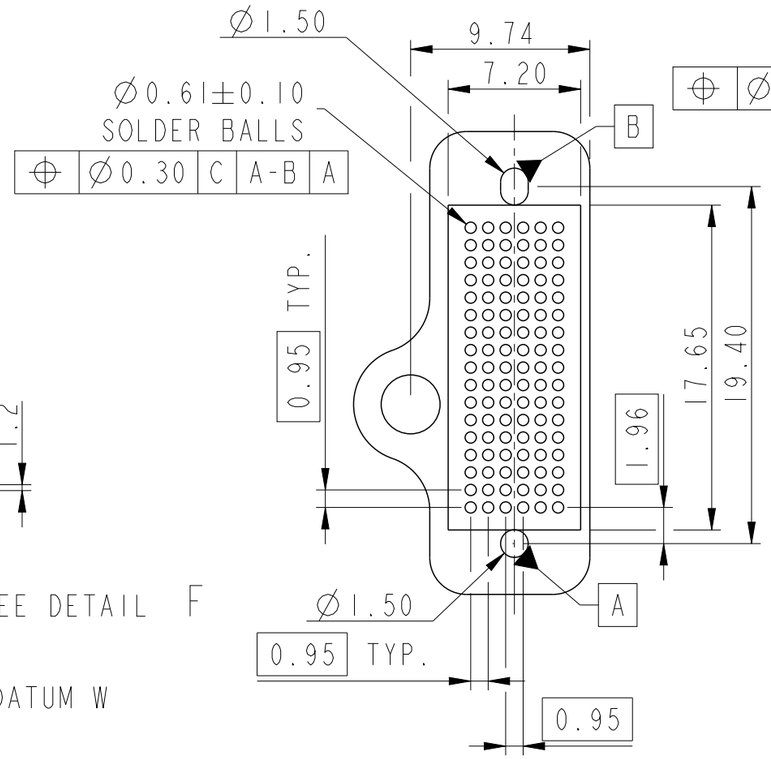
Creo File - REV E - 2016-02-12

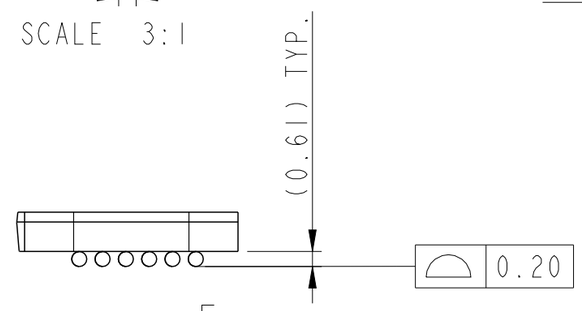
PDS: Rev :B STATUS:Released Printed: Dec 07, 2016

| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14423TxLF | 550.0060C.0001 | 6X17,6X24 |
| 10129553-14423MxLF | 550.0060C.0011 | |
| 10129553-14423WxLF | 550.0060C.0021 | |

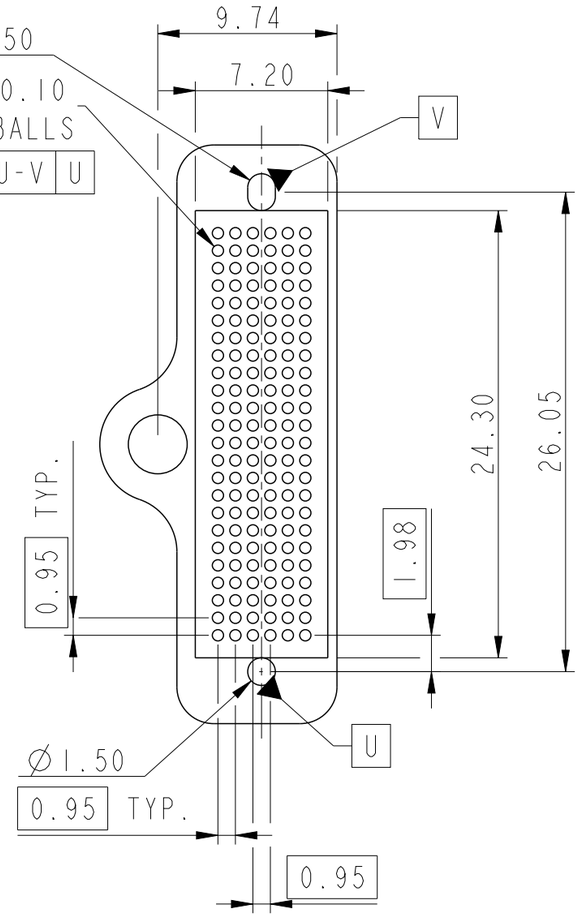



SCALE 3:1




2X DETAIL F
SCALE 4:1




SCALE 3:1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 | scale 4:5 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no | ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | appr | Pei-Ming Zheng | 2016/12/07 | product family | - | | |
| | | 0.XX | ±0.20 | Amphenol FCi | title | Flex Cable BGA Assembly | dwg no | 10129553 | rev | B |
| | | 0.XXX | ±0.10 | | | Brawn | | | | |
| | angular | 0° | ±2° | | cat. no. | - | Product - Customer Drw | | sheet 4 of 11 | |

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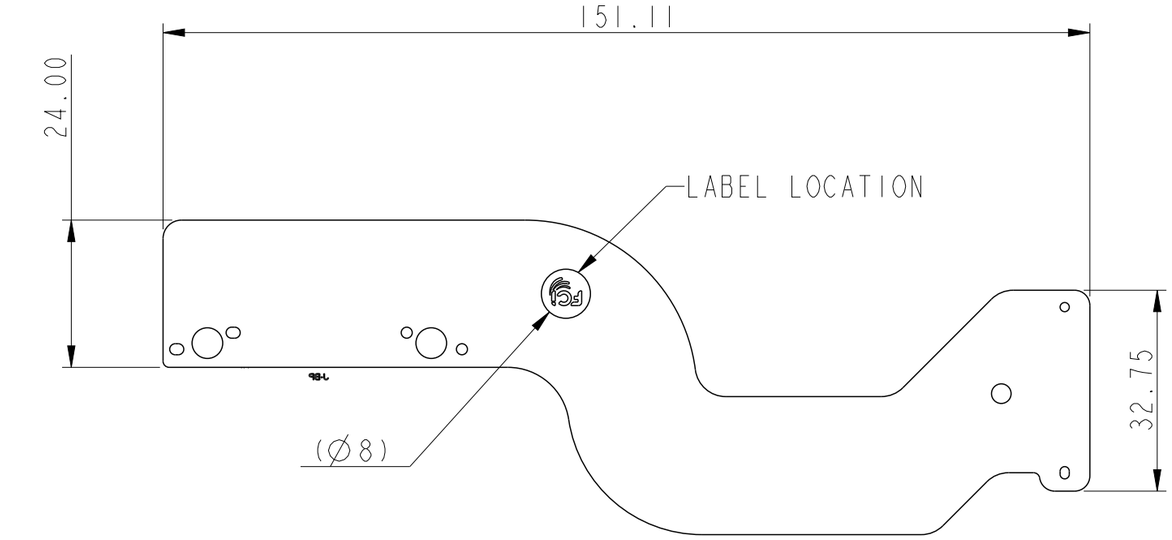
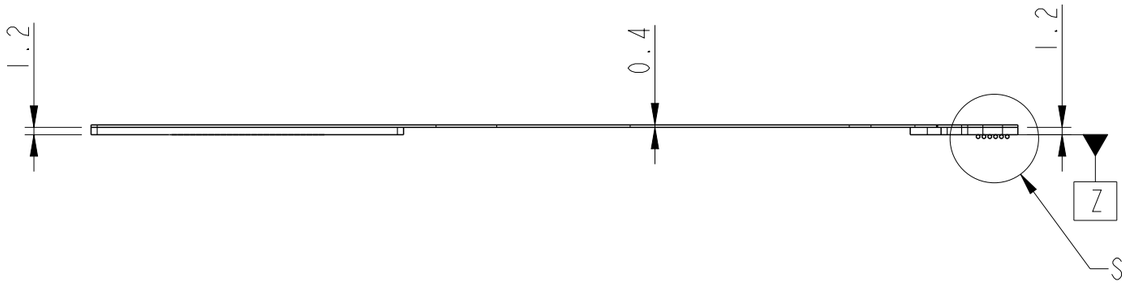
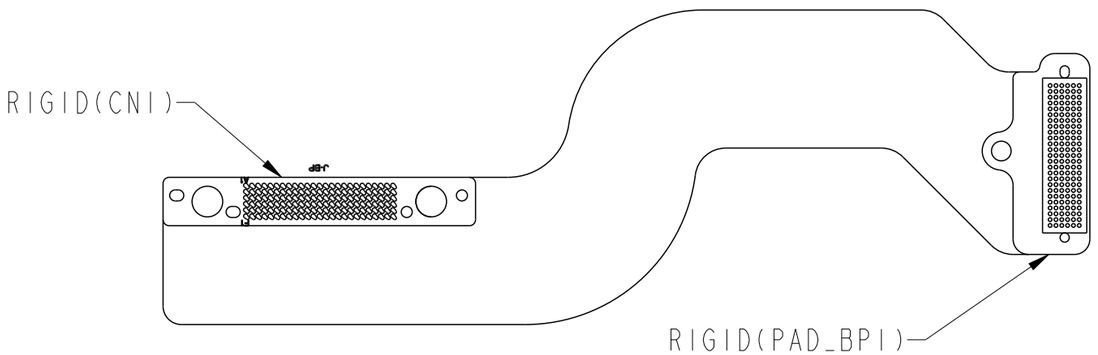
Creo File - REV E - 2016-02-12

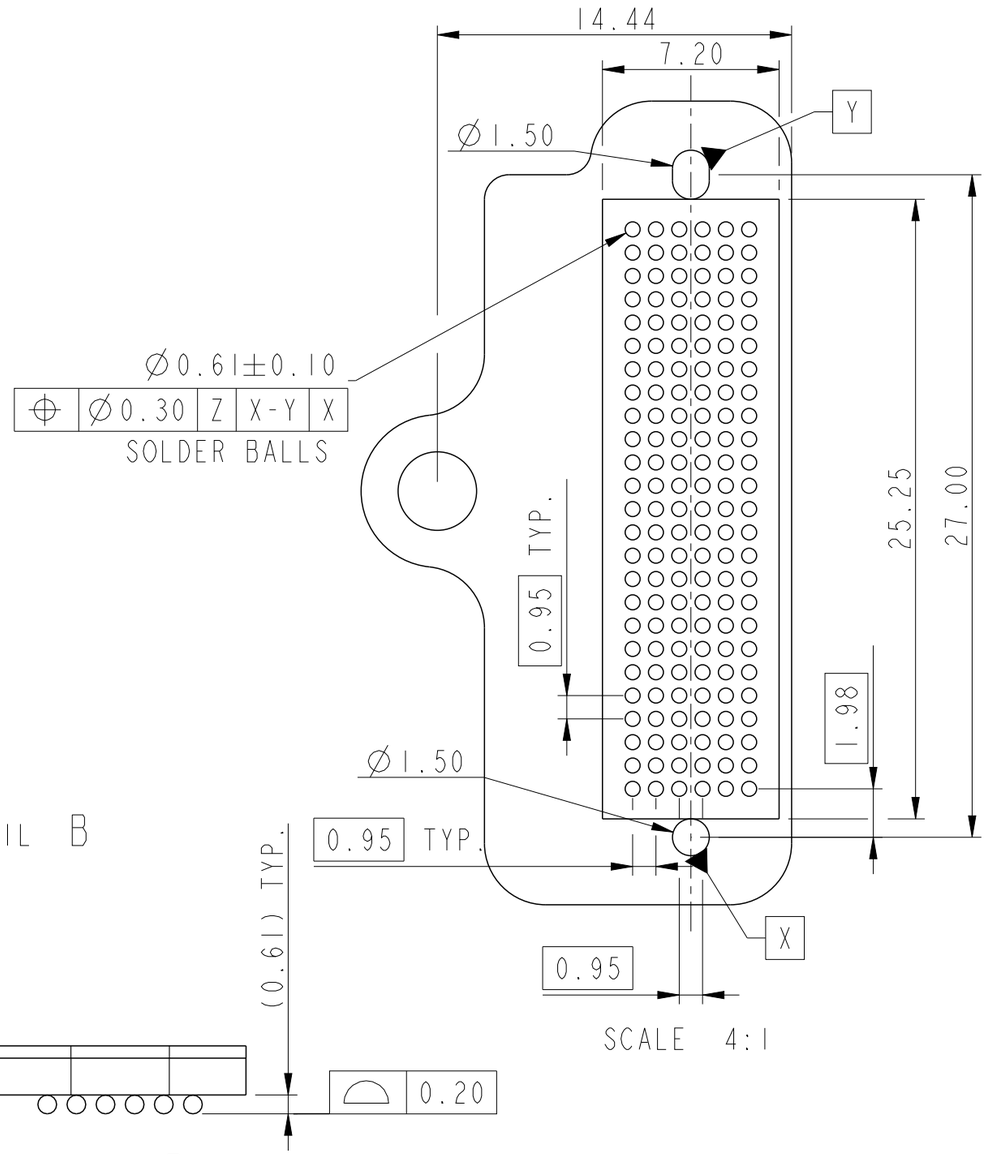
PDS: Rev :B STATUS:Released Printed: Dec 07, 2016

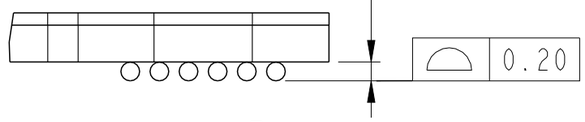
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14424TxLF | 550.0060B.0001 | 6X25 |
| 10129553-14424MxLF | 550.0060B.0011 | |
| 10129553-14424WxLF | 550.0060B.0021 | |




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 / scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family - | | rel level Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title: Flex Cable BGA Assembly | | dwg no 10129553 | | rev B |
| | | 0.XX | ±0.20 | | Brawn | | | | |
| | | 0.XXX | ±0.10 | | cat. no. - | | Product - Customer Drw | | sheet 5 of 11 |
| | angular | 0° | ±2° | | | | | | |

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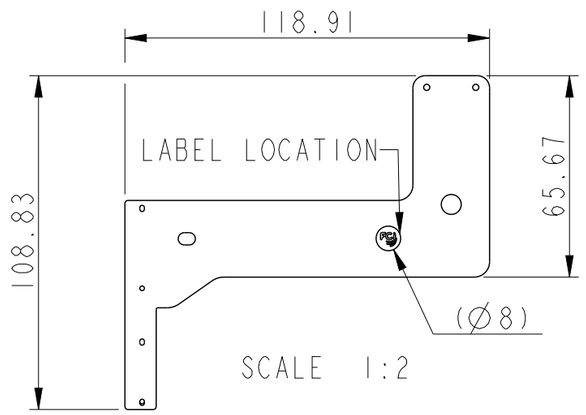
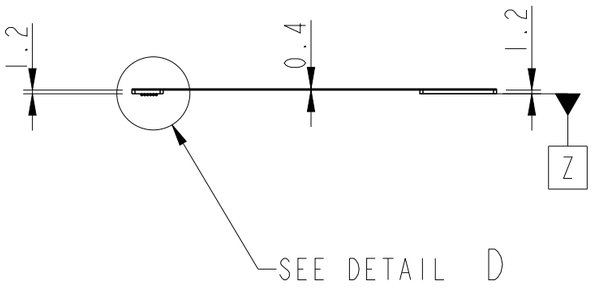
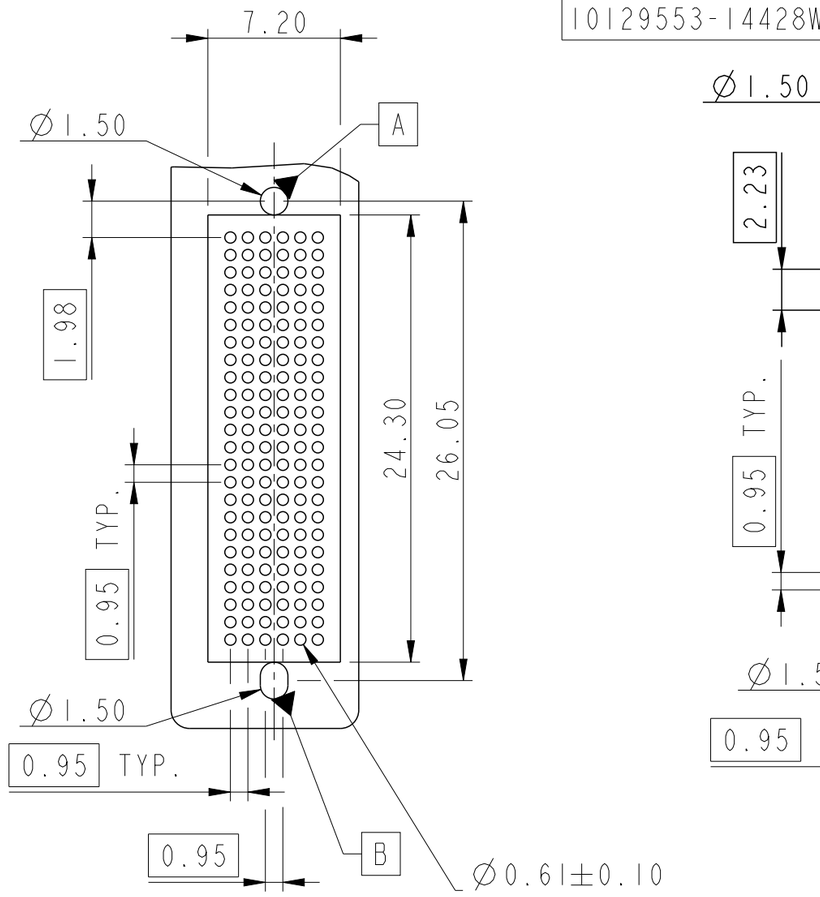
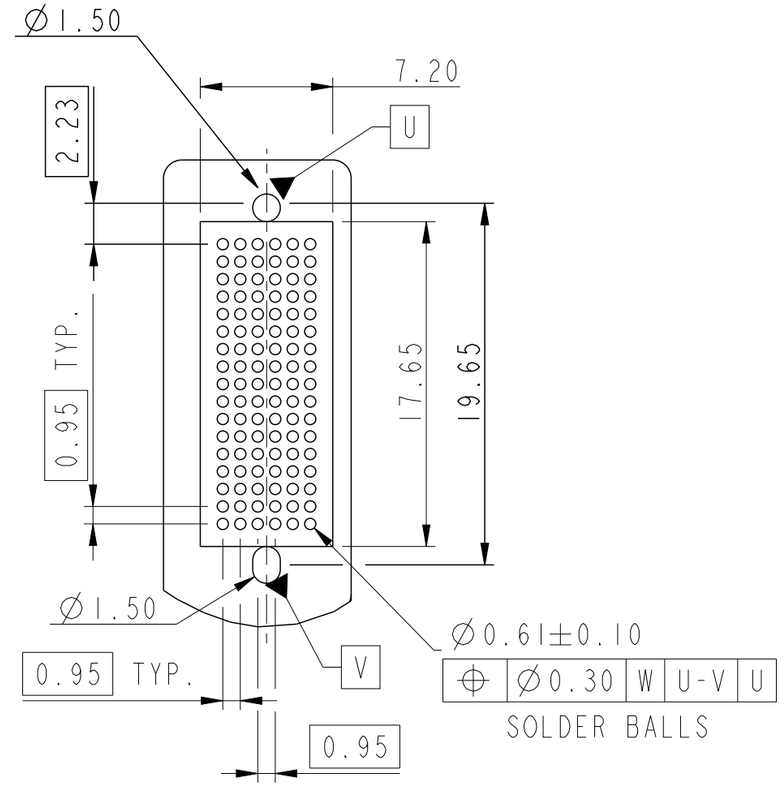
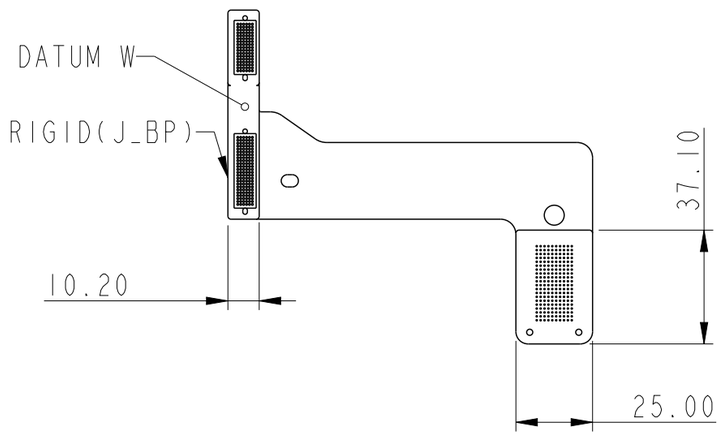
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14428TxLF | 550.00504.0011 | 6X24,6X17 |
| 10129553-14428MxLF | 550.00504.0001 | |
| 10129553-14428WxLF | 550.00504.0021 | |

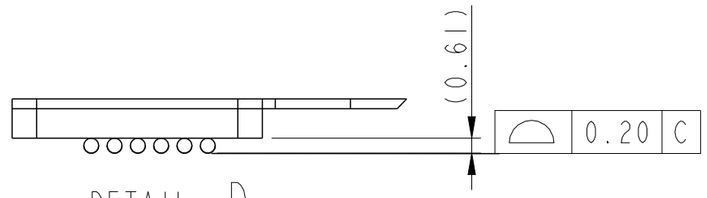



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 / scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | |
| | | | | chr | Heaven Cen | 2016/12/07 | | | ecn no ELX-DG-25561-1 |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family - | | rel level Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title: Flex Cable BGA Assembly Brawn | | dwg no 10129553 | | rev B |
| | | 0.XX | ±0.20 | | | | | | |
| | | 0.XXX | ±0.10 | | | | | | |
| | angular | 0° | ±2° | | cat. no. - | | Product - Customer Drw | | sheet 6 of 11 |

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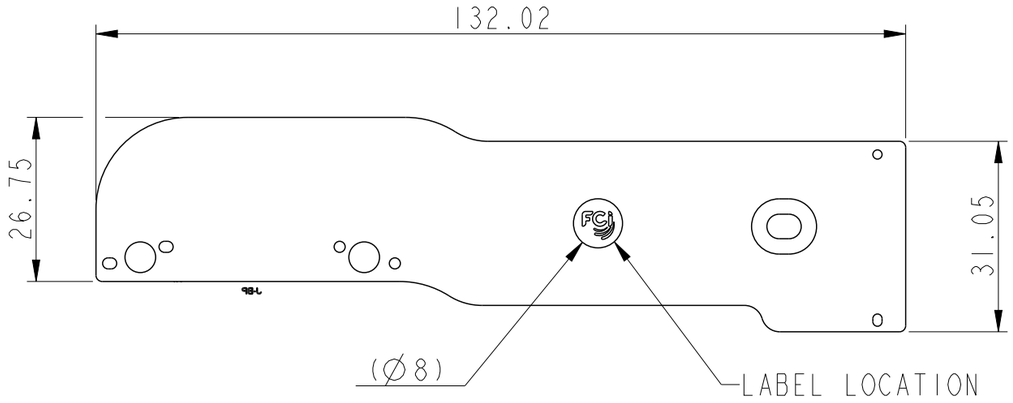
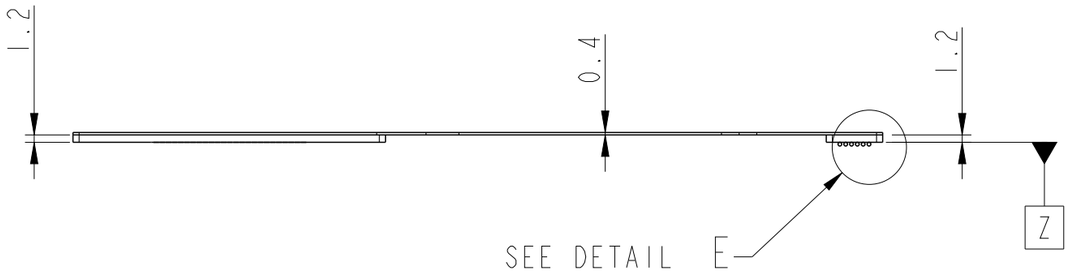
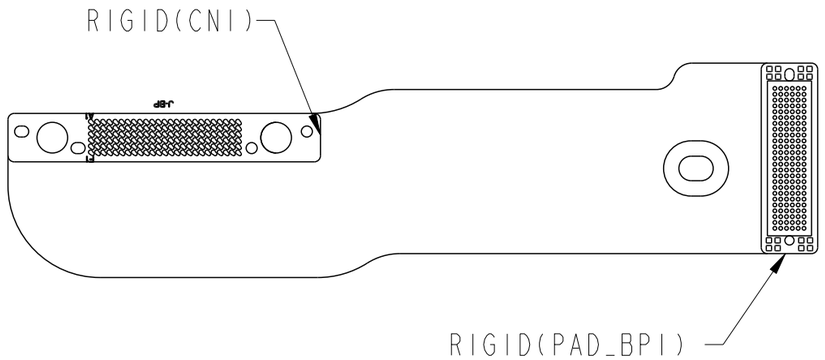
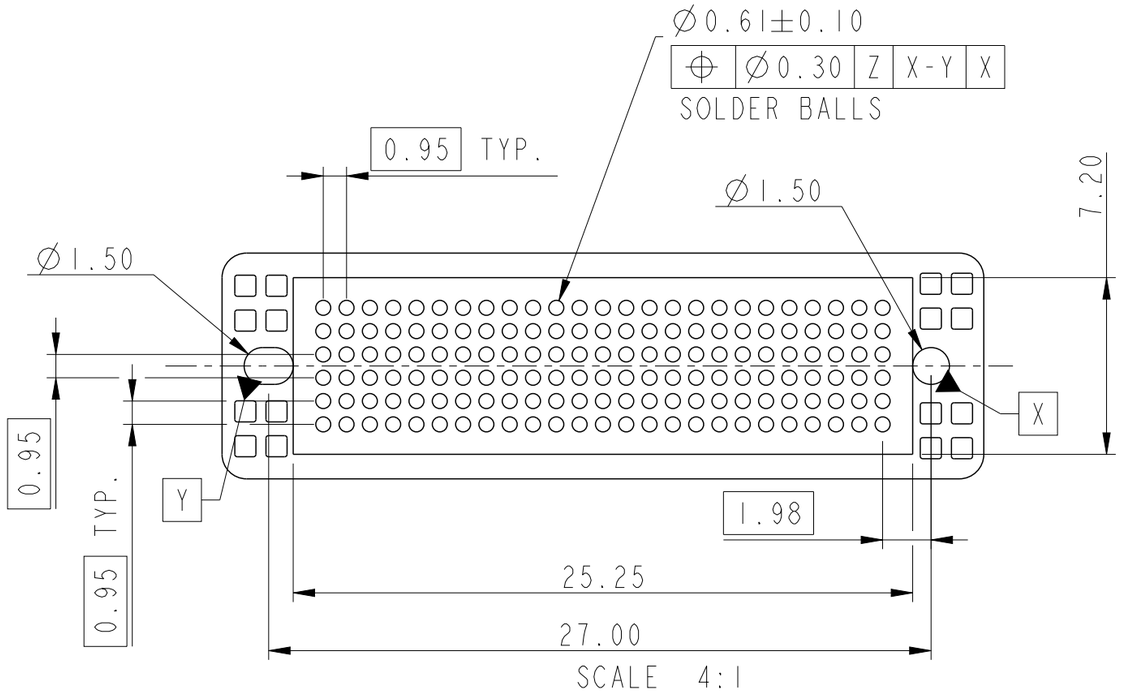
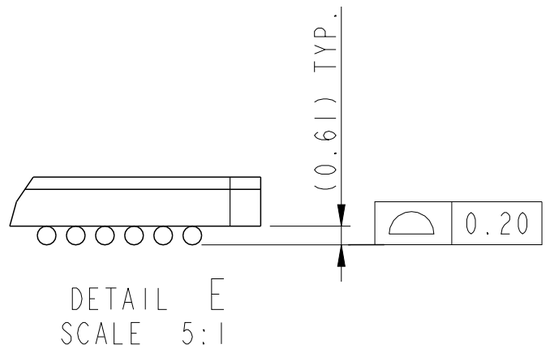
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14429TxLF | 550.00503.0031 | 6X25 |
| 10129553-14429MxLF | 550.00503.0001 | |
| 10129553-14429WxLF | 550.00503.0021 | |




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 | scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no | ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | appr | Pei-Ming Zheng | 2016/12/07 | product family | - | | |
| | | 0.XX | ±0.20 | Amphenol FCi | title | Flex Cable BGA Assembly Brawn | | dwg no 10129553 | | rev B |
| | | 0.XXX | ±0.10 | | | | | | | |
| | angular | 0° | ±2° | | cat. no. | - | Product - Customer Drw | | sheet 7 of 11 | |

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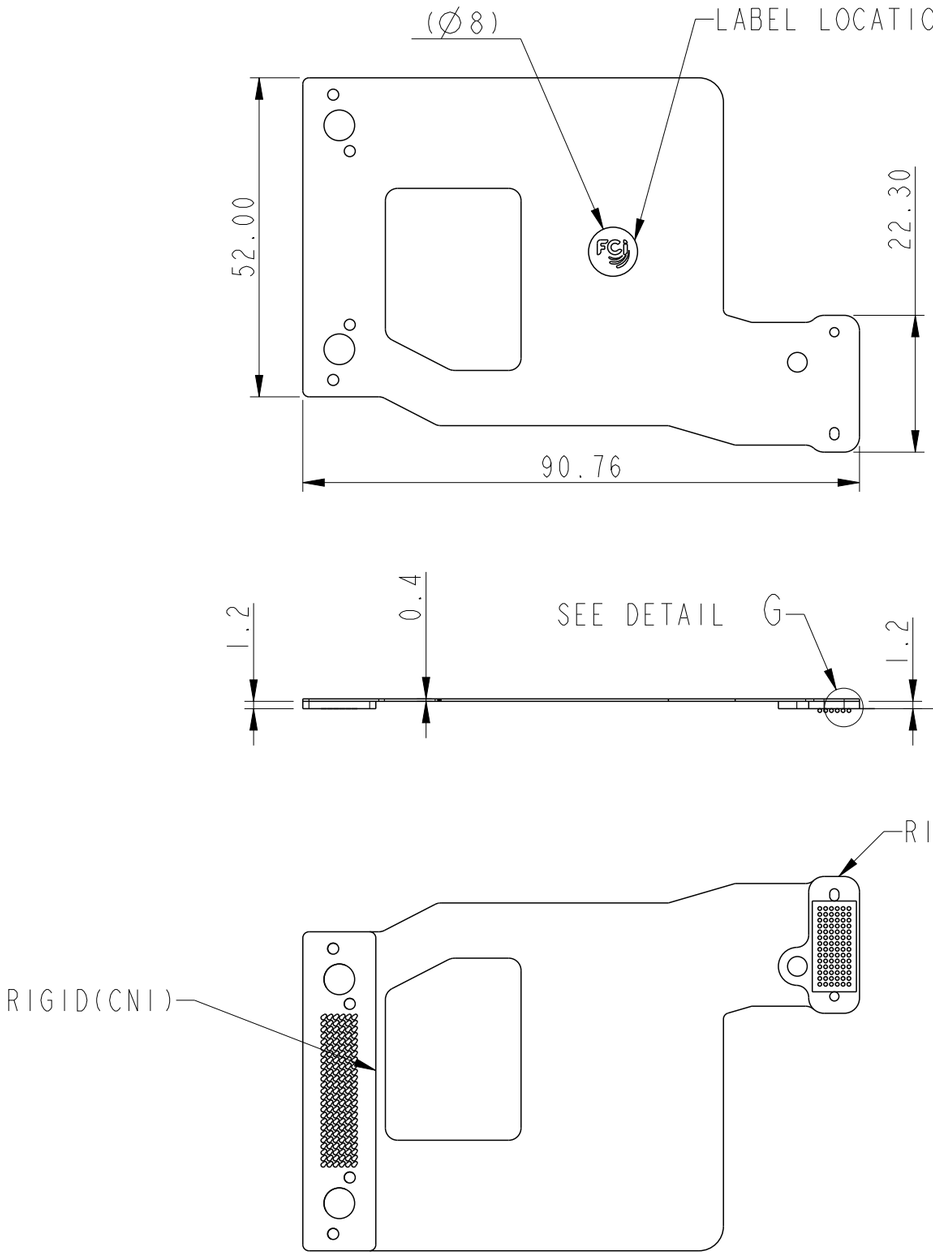
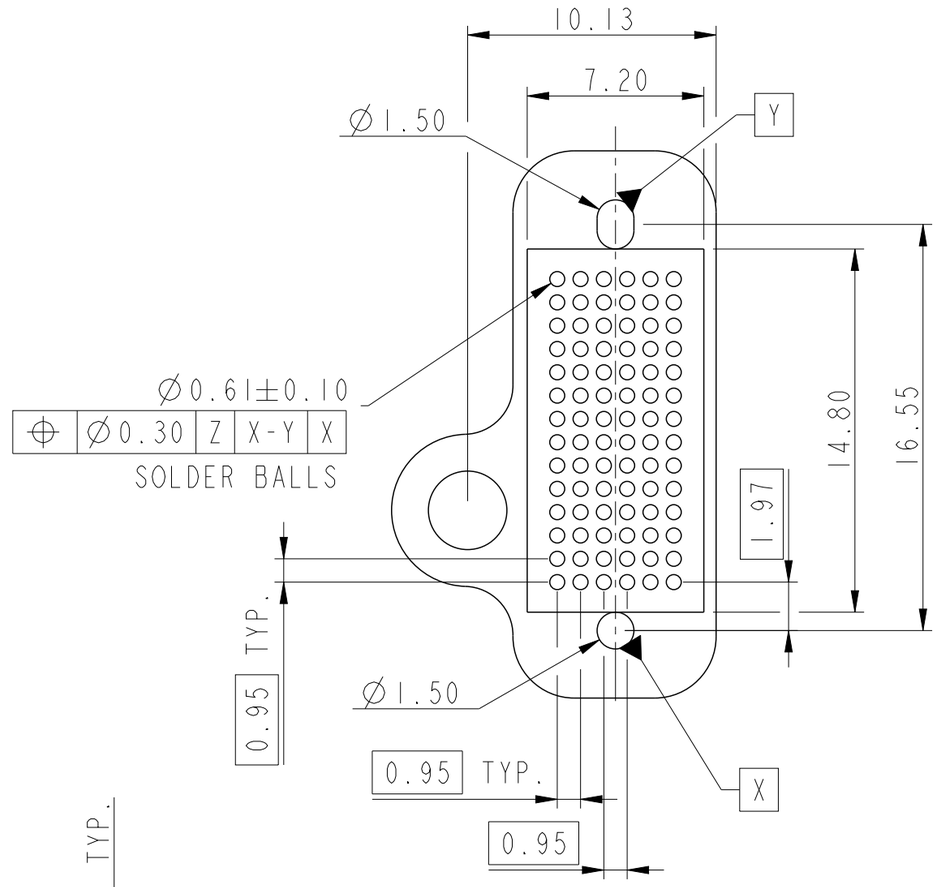
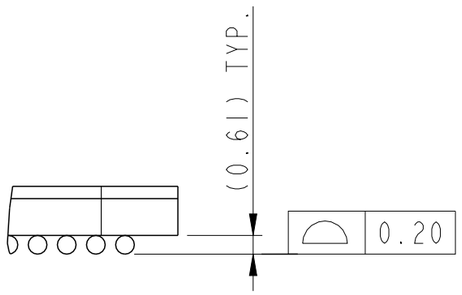
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-14460TxLF | 550.0060D.0001 | 6X14 |
| 10129553-14460MxLF | 550.0060D.0011 | |
| 10129553-14460WxLF | 550.0060D.0021 | |




DETAIL G
SCALE 5:1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 | scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no | ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | | |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family - | | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title | Flex Cable BGA Assembly | | | dwg no | 10129553 | rev | B |
| | | 0.XX | ±0.20 | | | Brawn | | | | | | |
| | | 0.XXX | ±0.10 | | cat. no. | - | Product - Customer Drw | | | sheet 8 of 11 | | |
| | angular | 0° | ±2° | | | | | | | | | |

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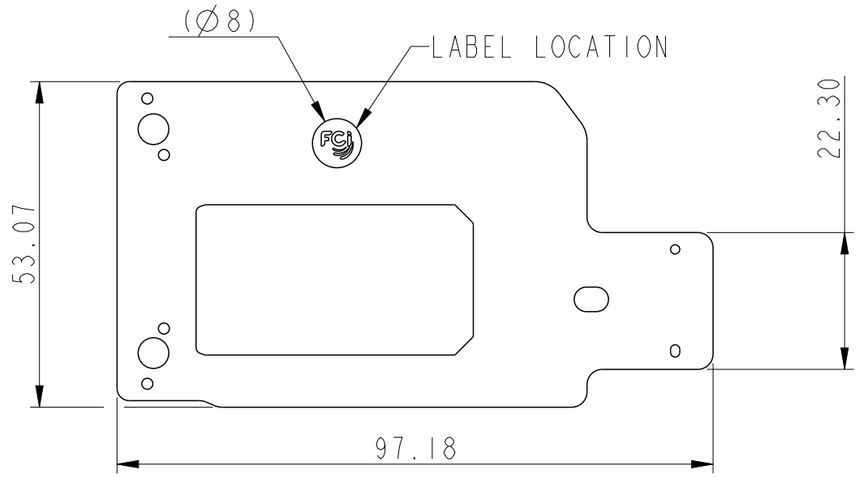
Creo File - REV E - 2016-02-12

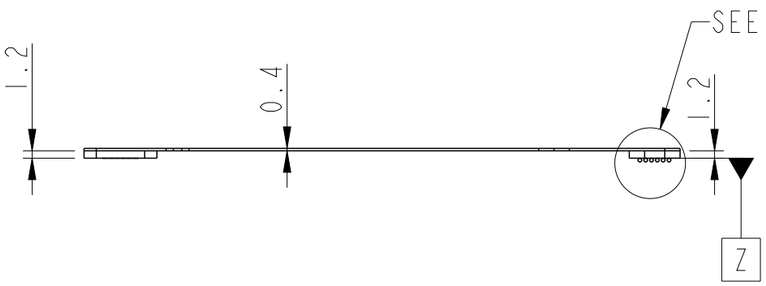
PDS: Rev :B

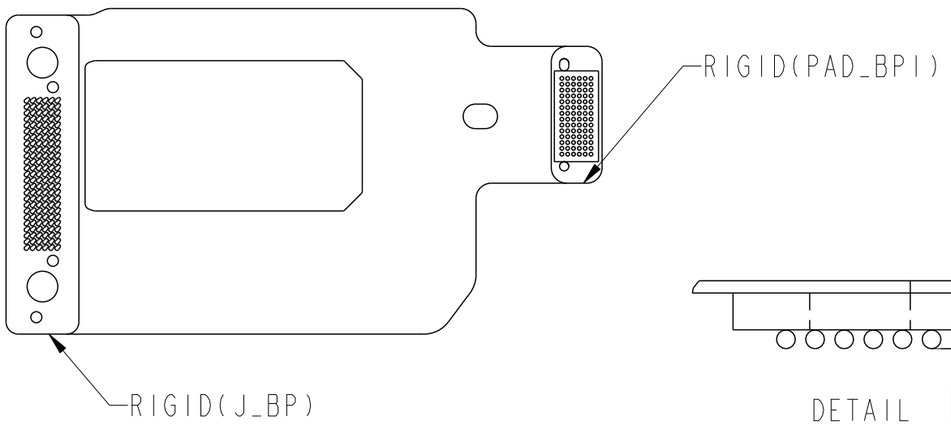
STATUS:Released

Printed: Dec 07, 2016

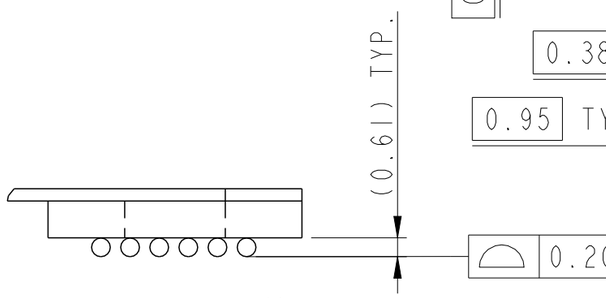
| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-1446ITxLF | 550.00505.0011 | 6X14 |
| 10129553-1446IMxLF | 550.00502.0001 | |
| 10129553-1446IWxLF | 550.00505.0021 | |



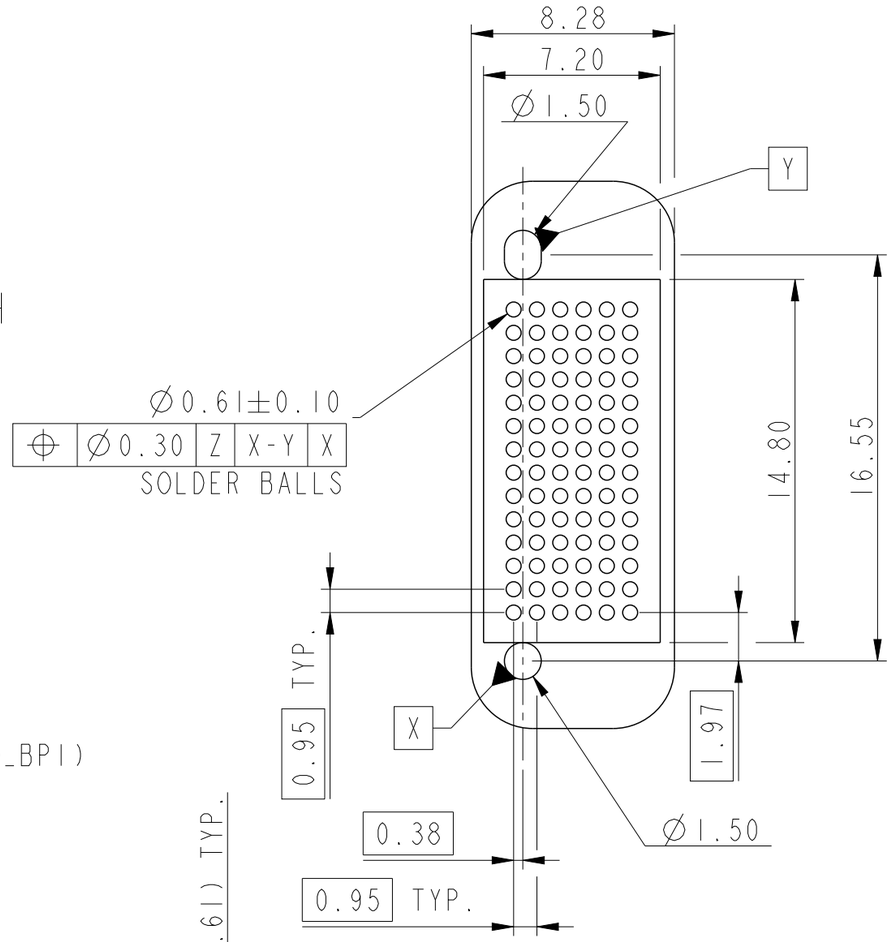




SCALE 1:1




DETAIL H
SCALE 5:1




SCALE 4:1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 | scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no | ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | | |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family | - | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title | Flex Cable BGA Assembly | dwg no | 10129553 | rev | B |
| | | 0.XX | ±0.20 | | | Brawn | | | | |
| | | 0.XXX | ±0.10 | | cat. no. | - | Product - Customer Drw | | sheet 9 of 11 | |
| | angular | 0° | ±2° | | | | | | | |

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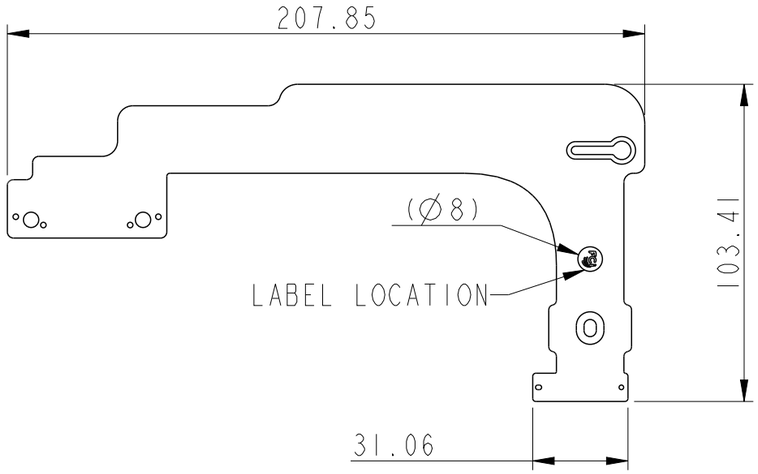
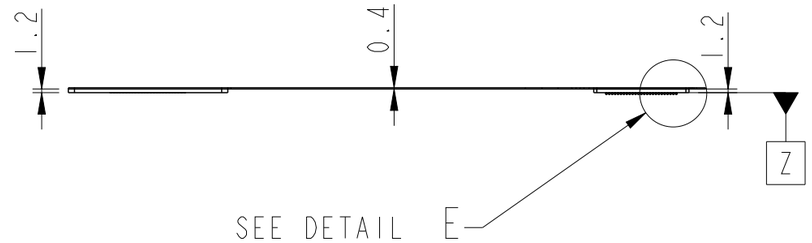
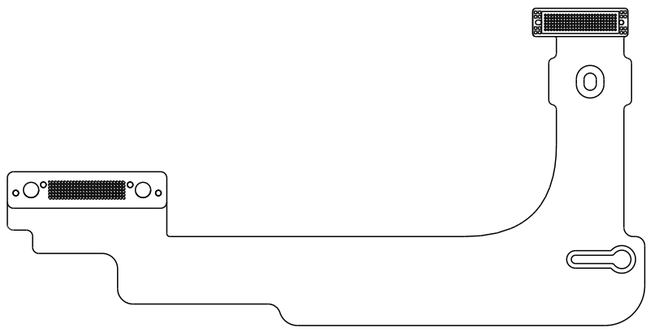
Creo File - REV E - 2016-02-12

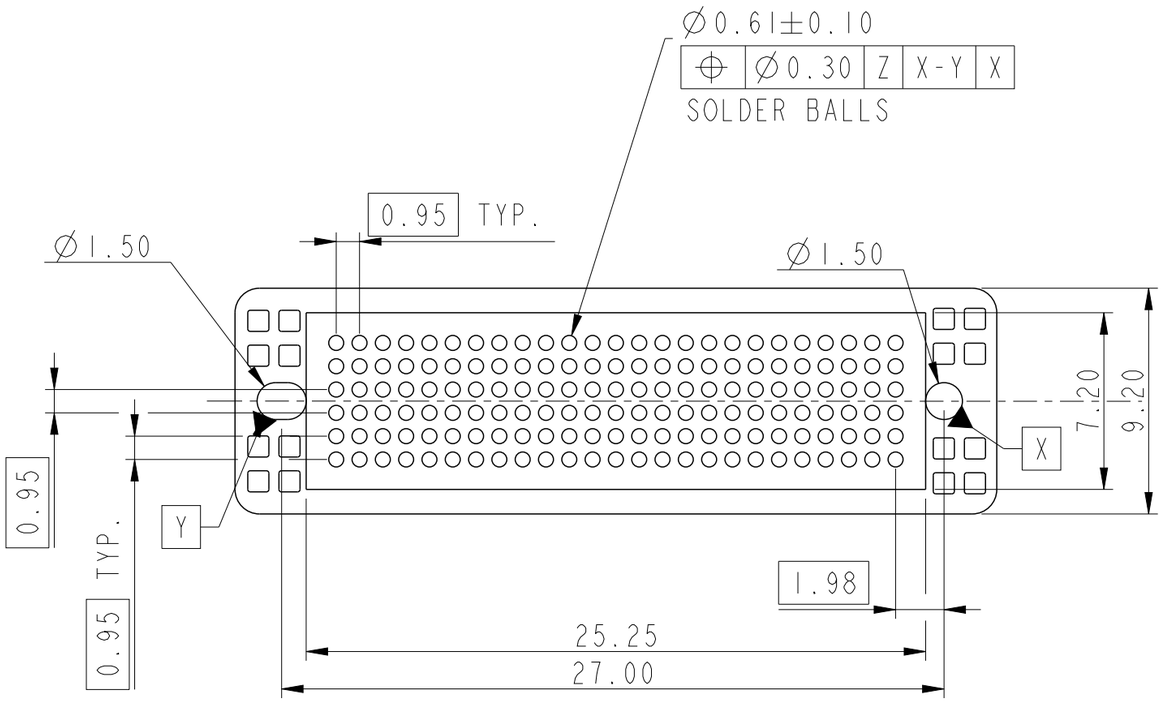
PDS: Rev :B STATUS:Released Printed: Dec 07, 2016

| Product P/N | Wistron P/N | BGA Array Pattern |
|---|---|---|
| 10129553-1453ITxLF | 550.00507.0011 | 6X25 |
| 10129553-1453IMxLF | 550.00507.0001 | |
| 10129553-1453IWxLF | 550.00507.0021 | |

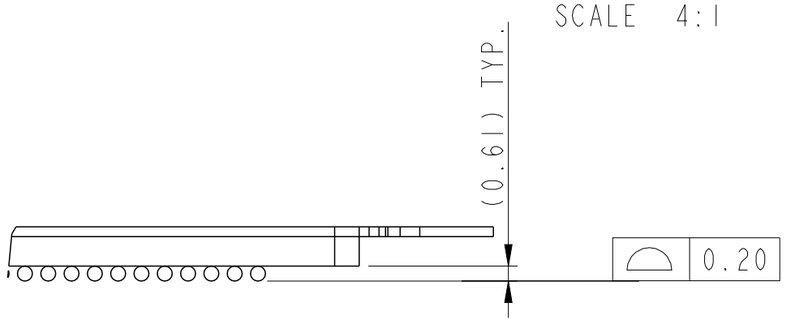





SCALE 4:1




DETAIL E
SCALE 4:1

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 / scale 1:2 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Michael Song | 2016/12/07 | | | ecn no ELX-DG-25561-1 |
| | | | | chr | Heaven Cen | 2016/12/07 | | | |
| | | | | appr | Pei-Ming Zheng | 2016/12/07 | product family - | | rel level Released |
| surface ASME Y14.5 | linear | 0.X | ±0.30 | Amphenol FCi | title: Flex Cable BGA Assembly / Brawn | | dwg no 10129553 | | rev B |
| | | 0.XX | ±0.20 | | | | | | |
| | | 0.XXX | ±0.10 | | | | | | |
| | angular | 0° | ±2° | | cat. no. - | | Product - Customer Drw | | sheet 10 of 11 |

PRODUCT PART NUMBER

10129553-□□□□□XXLF

- BASE NUMBER
- CODE (SEE TABLE)
- SUPPLIER:
  M:Multex
  T:TTM
  W:WuZhu
- PCB DESIGN:
  0: STANDARD
  1 TO N: NEW STACKUP
- LEAD FREE

| CODE | Flex Cable code In Wistron |
|---|---|
| 14430 | 14430 |
| 14426 | 14426 |
| 14425 | 14425 |
| 14423 | 14423 |
| 14424 | 14424 |
| 14428 | 14428 |
| 14429 | 14429 |
| 14460 | 14460 |
| 14461 | 14461 |
| 14531 | 14531 |

NOTES:
1. MATERIAL:
   FLEX CABLE
   SOLDER BALL: LEAD FREE 96.5Sn/3Ag/0.5Cu
   VENDOR: ALPHA

2. SOLDER BALLS WILL NOT BE PERFECT SHPERICAL SHAPE DUE TO REFLOW ATTACHMENT.

3. PRODUCT SPECIFICATION: GS-12-1183.

4. APPLICATION SPECIFICATION: GS-20-0391.

5. PACKAGE SPECIFICATION: GS-14-2365.

6. PRODUCT MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS DESCRIBED IN GS-22-08.

7. RATED VOLTAGE L80V-LESS THAN 80V

8. SHEAR FORCE OF SOLDER BALL:800GF MIN.

9. APPEARANCE STANDARD FOLLOWS IPC 6013 CLASS2 CRITERIA AND DELL PCB 10207.

10. MSL LEVEL:MULTEK:5 TTM:5A.

11. CONTACT RESISTANCE:
    MULTEK:10 OHM TTM:10 OHM

12. INSULATION RESISTANCE:
    MULTEK:10 MEGAOHM TTM:10 MEGAOHM

13. PCB WARPAGE CRITERIA:
    0.7% OF PCB LENGTH MAX.(BEFORE REFLOW)

14. IMPEDANCE REQUIREMENT.

| | | |
|---|---|---|
| 100 +/-10 OHMS RISE TIME=70PS (20% TO 80%) | 85 +/-10 OHMS RISE TIME=70PS (20% TO 80%) | 50 +/-5 OHMS RISE TIME=100PS (10% TO 90%) |
| SAS AND PCIE PAD (DIFFERENTIAL PAIR) | SATA PAD (DIFFERENTIAL PAIR) | SIDE BAND PAD (POWER,GND,SIDE BAND SIGNALS) |

15. DIMENSION WITH THE "(  )" SYMBOL IS THE REFERENCE DIMENSION.

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | dr | Zhen Luo | 2016/08/18 | projection | MM | size A3 / scale 1:1 |
| tolerance std ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng | Michael Song | 2016/12/07 | | | ecn no ELX-DG-25561-1 |
| | | chr | Heaven Cen | 2016/12/07 | | | |
| | | appr | Pei-Ming Zheng | 2016/12/07 | product family - | | rel level Released |
| surface ASME Y14.5 | linear 0.X ±0.30 / 0.XX ±0.20 / 0.XXX ±0.10 | Amphenol FCi | title: Flex Cable BGA Assembly Brawn | | dwg no 10129553 | | rev B |
| | angular 0° ±2° | | cat. no. - | | Product - Customer Drw | | sheet 11 of 11 |

# OCEAN CHIPS
## Океан Электроники
## Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

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Разъемы специального, военного и аэрокосмического назначения:

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**«FORSTAR»** (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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