

NOTES: UNLESS OTHERWISE SPECIFIED

- DIMENSIONS SHALL BE INTERPRETED PER ASME Y14.5-2009.
- THE SPECIFICATIONS MEET THE SFF-8643.
- MATERIALS:

HOUSING: HIGH TEMPERATURE THERMOPLASTIC(LCP), UL94V-0, COLOR: BLACK.& WHITE.  
 COVER: HIGH TEMPERATURE THERMOPLASTIC (LCP), UL94V-0, COLOR: BLACK.  
 CONTACTS: COPPER ALLOY.  
 NICKLE UNDER PLATING OVER ALL, THICKNESS: 50u"~150u"  
 MATTE TIN PLATING OVER NICKEL ON SOLDER AREA. THICKNESS: 30u"~80u"  
 GOLD PLATING OVER NICKEL ON CONTACT AREA.

⚠ THE " **FOXCONN** " LOGO IS LOCATED APPROX. AS SHOWN.

⚠ DATE CODE: "\*\*\*\*" REFER TO FOXCONN'S DOC. "SQ-3B0-070".

- PLEASE CONTACT FOXCONN SALES REPRESENTATIVE TO VERIFY PRODUCT DETAILS & AVAILABILITY.
- HARMFUL MATERIAL CONTROL PLEASE FOLLOW FOXCONN'S DOC. "EPI12".
- THE CONCENTRATIONS OF Br&Cl CAN SATISFY THE REQUIREMENT OF HALOGEN-FREE IN DOCUMENT "EPI12".
- THRUST PCB BOARD POWER: 400N(RECOMMEND).
- MOUNTING HARDWARE: M2X0.40 SELF-THREADING SCREW, TORQUE 2.0~2.6 kgf-cm---for  $\phi$ 1.70  
 M2.2X0.45 SELF-THREADING SCREW, TORQUE 2.0~2.6 kgf-cm---for  $\phi$ 1.80  
 MOUNTING SCREW LENGTH: PCB THICKNESS+2.5mm MAX.

11. PRODUCT NO. MATRIX: LD \* \* \* \* \* - \* \* \* \* \* - \* \* \*

PRODUCT Family: \_\_\_\_\_  
 SAS Connector  
 Product Series: \_\_\_\_\_  
 H: Mini SAS HD Connector

Mating End: \_\_\_\_\_  
 1.Plug  
 2.Receptacle  
 3.Adapter

No. of Pos \_\_\_\_\_  
 36: 36Pos  
 72: 72Pos  
 E4: 144Pos

Plating Code: \_\_\_\_\_  
 1: Gold Flash  
 3: 30U"Gold Plating  
 6: 10U"Gold Plating  
 7: 15U"Gold Plating  
 Y: 5~10U"Gold Plating

Mounting End Type: \_\_\_\_\_  
 0: None  
 1: SMT R/A  
 3: Hybrid  
 4: Press Fit R/A  
 5: SMT Vertical  
 6: Press Fit Vertical  
 7: T/H,R/A  
 8: T/H,Vertical  
 9: Retention-Fit

Lead Free Code:  
 F: Lead Free  
 H: Halogen Free & Lead Free

Package Code:  
 4: Soft Tray  
 7: Tape & Reel

Extension Code: 0~9  
 0: DIM A =  $\phi$ 1.80mm, Black bracket.  
 1: DIM A =  $\phi$ 1.70mm, Black bracket.  
 4: DIM A =  $\phi$ 1.80mm, White bracket.

Cage & Cover Type:  
 7: Without EMI Cage, With Dust Cover and 2 Wall  
 9: Without EMI Cage AND Dust Cover, WITH 2 Wall

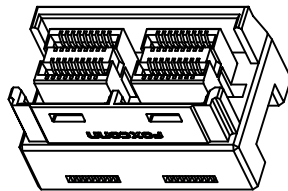
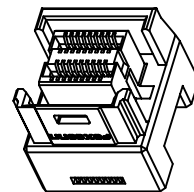
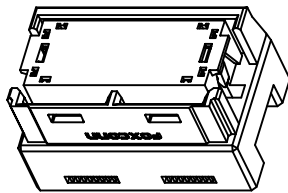
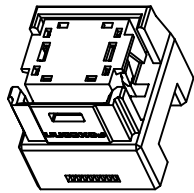
Applications:  
 N: Internal

Transmission Speed:  
 3: 12Gb/s  
 4: 24Gb/s

REV.	ECN. NO.	APPD.
A	BC-16-0040205	Shih-wei Hsiao
B	BC-17-0043997	Shih-wei Hsiao
C	BC-19-0002698	Shih-wei Hsiao
D	BC-20-0014474	Shih-wei Hsiao
E	BC-20-0027228	Shih-wei Hsiao
F	BC-20-0031979	Shih-wei Hsiao
G	BC-21-0013690	Shih-wei Hsiao
GX1	BS-21-452080	Shih-wei Hsiao
GX2	BS-21-458504	Shih-wei Hsiao
GX3	BS-21-458583	Shih-wei Hsiao

1X1

1X2



CONFIGURATION	P/N	REMARK
1X2	LDH272*-63N9*-*H	WITHOUT COVER
1X1	LDH236*-63N9*-*H	WITHOUT COVER
1X2	LDH272*-63N7*-*H	WITH COVER
1X1	LDH236*-63N7*-*H	WITH COVER

X.±	X'.±	UNITS	mm	NAME(INTENDED USE)	
.X± 0.30	.X'±	MAT'L		MINISAS HD	
.XX± 0.20	.XX'±			PART NO.(INTENDED USE)	
.XXX± 0.10	.XXX'±	FINISH		LDH2***-63N***-*H	
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				Q'TY	CHKD: Yen-Chih Chang
				DRAW: WANG 06/09'21	



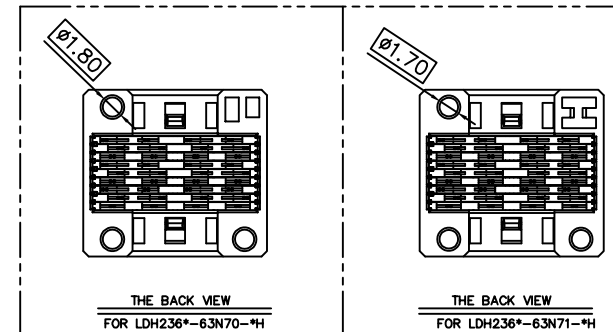
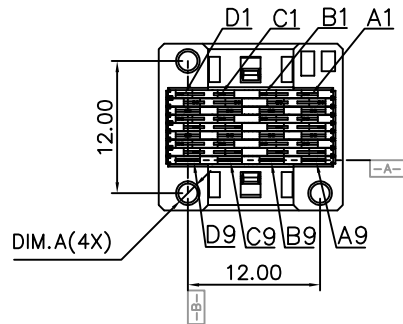
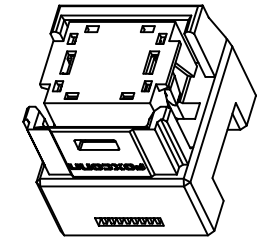
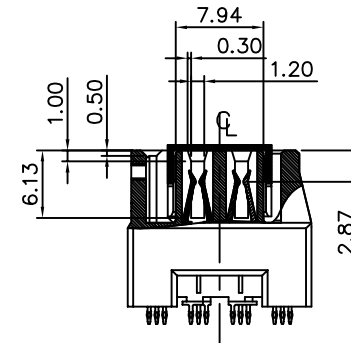
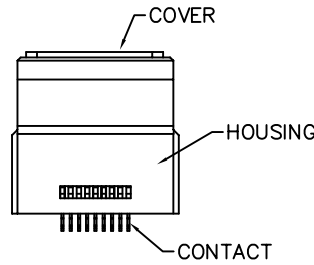
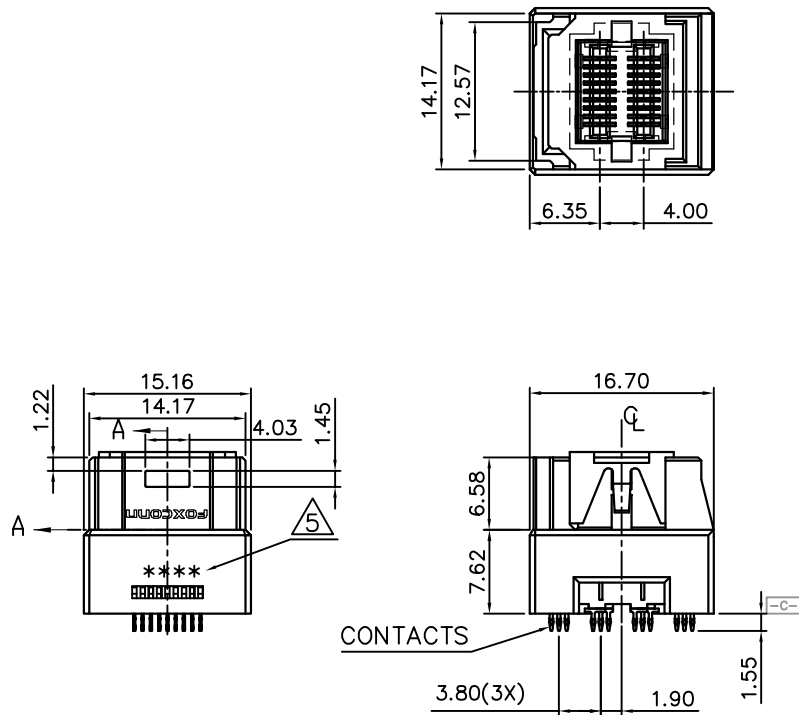
**FOXCONN®**  
 FOXCONN INTERCONNECT TECHNOLOGY LIMITED

CLASS:  
 CONFIDENTIAL  SECRET  GENERAL

TITLE: CUSTOMER DRAWING FOR MINISAS HD VERTICAL T/H TYPE

DWG NO.: 303-0000-3244

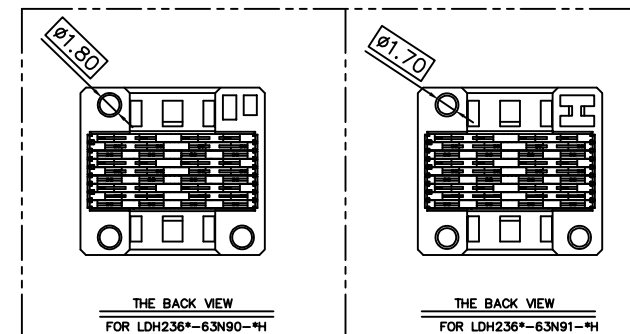
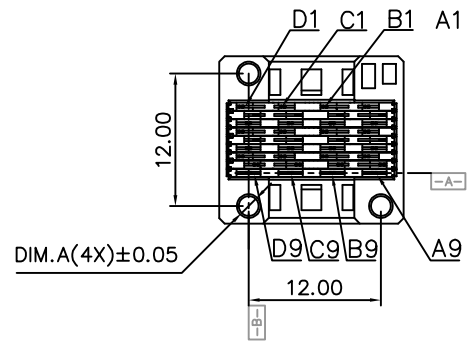
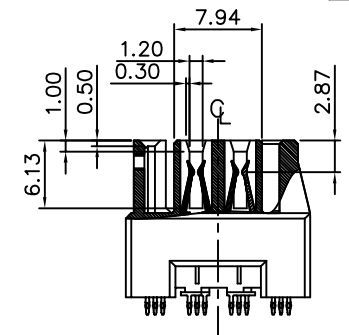
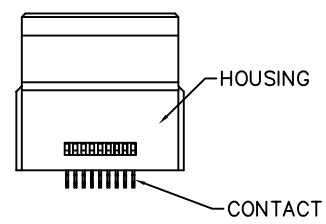
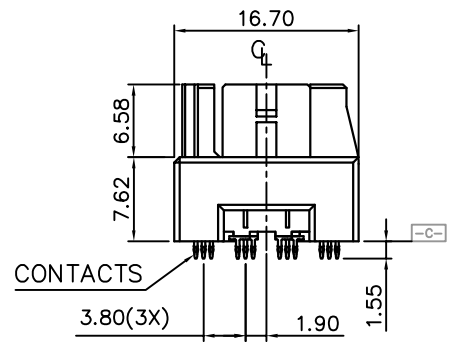
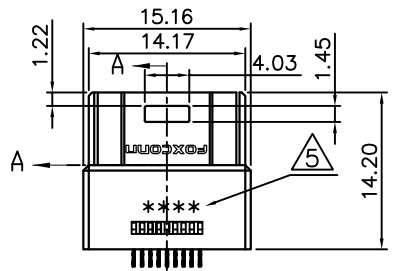
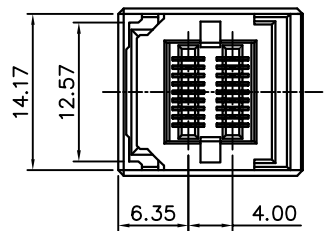
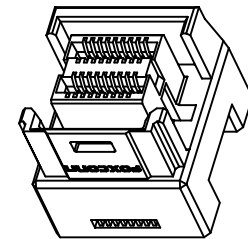
SCALE	SHEET	REV.
N/A	1/10	GX3



1X1	LDH236*-63N71-*H	ø1.70
1X1	LDH236*-63N70-*H	ø1.80
CONFIGURATION	P/N	DIM.A

GX3

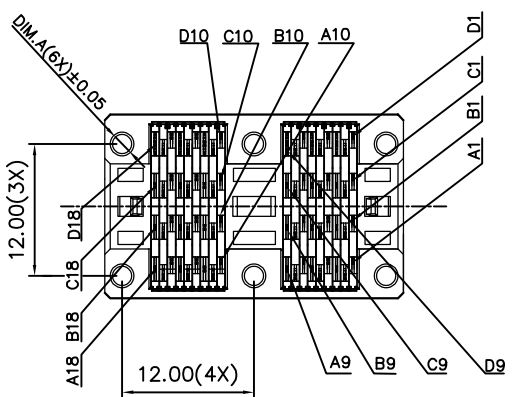
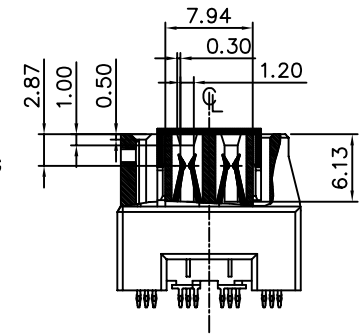
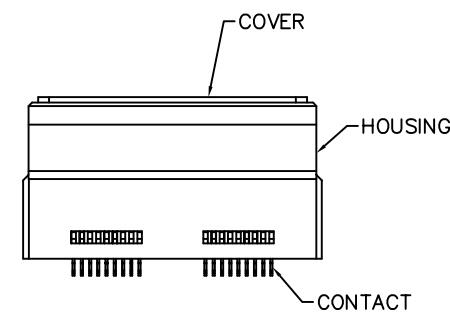
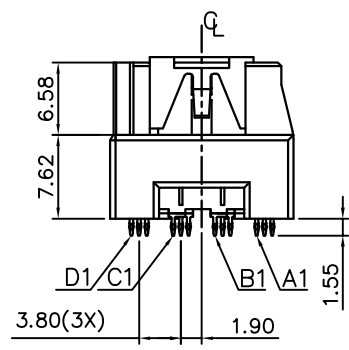
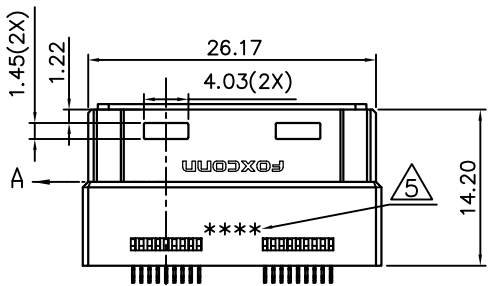
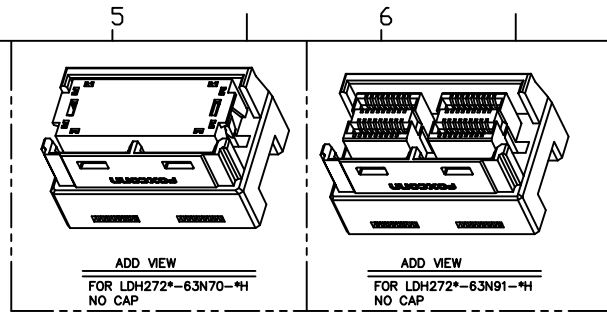
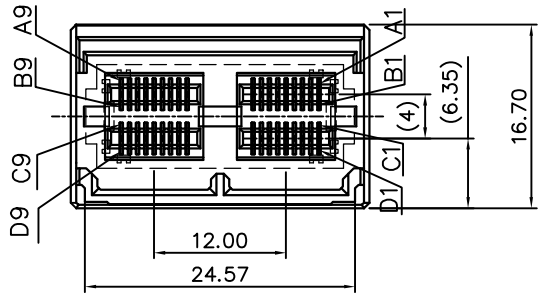
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		Q'TY		APPD: Shih-wei Hsiao	DWG NO.:
				CHKD: Yen-Chih Chang	303-0000-3244
				DRAW: WANG 06/09'21	SCALE SHEET REV.
					N/A 2/10 GX3



1X1	LDH236*-63N94-*H	ø1.80
1X1	LDH236*-63N91-*H	ø1.70
1X1	LDH236*-63N90-*H	ø1.80
CONFIGURATION	P/N	DIM.A

GX3

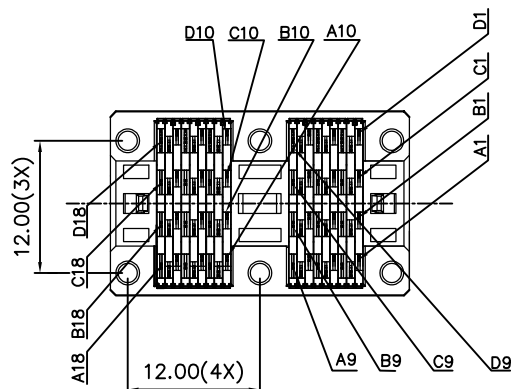
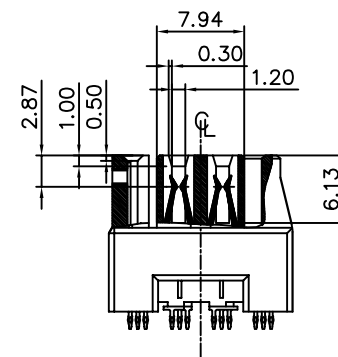
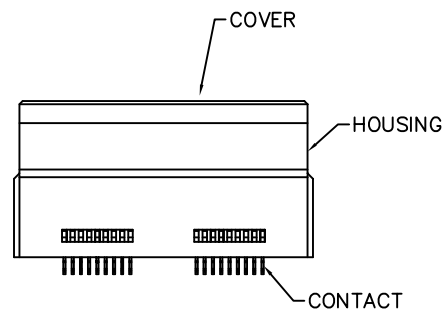
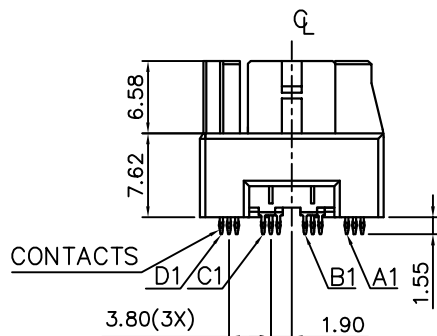
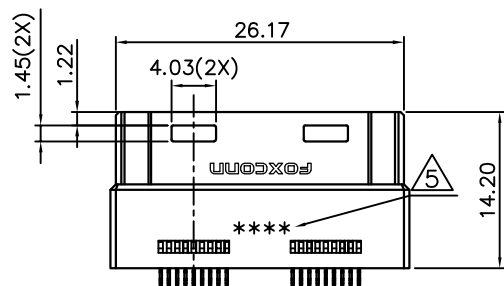
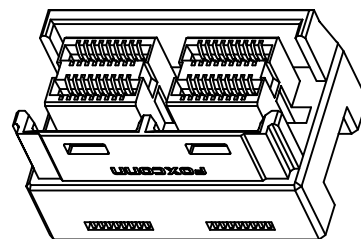
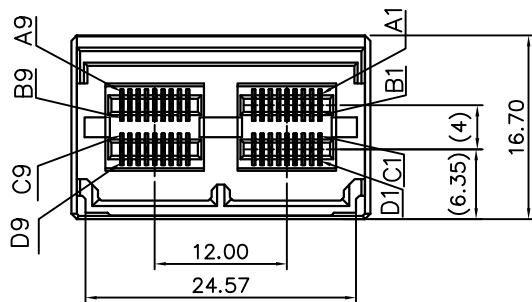
X.±	X.±	UNITS	mm	NAME(INTENDED USE)	<b>FOXCONN®</b> FOXCONN INTERCONNECT TECHNOLOGY LIMITED
.X± 0.30	.X'±	MAT'L		MINISAS HD	
.XX± 0.20	.XX'±	FINISH		PART NO.(INTENDED USE)	CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL
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				CHKD: Yen-Chih Chang	303-0000-3244
				DRAW: WANG 06/09'21	SCALE SHEET REV. N/A 3/10 GX3



GX3

1X2	LDH272*-63N91-*H	ø1.70
1X2	LDH272*-63N70-*H	ø1.80
CONFIGURATION	P/N	DIM.A

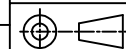
X.±	X.±	UNITS	mm	NAME(INTENDED USE)	<b>FOXCONN®</b> FOXCONN INTERCONNECT TECHNOLOGY LIMITED			
.X± 0.30	.X'±	MAT'L		MINISAS HD				
.XX± 0.20	.XX'±			PART NO.(INTENDED USE)	CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL			
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				CHKD:	Yen-Chih Chang	SCALE	SHEET	REV.
				DRAW:	WANG 06/09'21	N/A	4/10	GX3



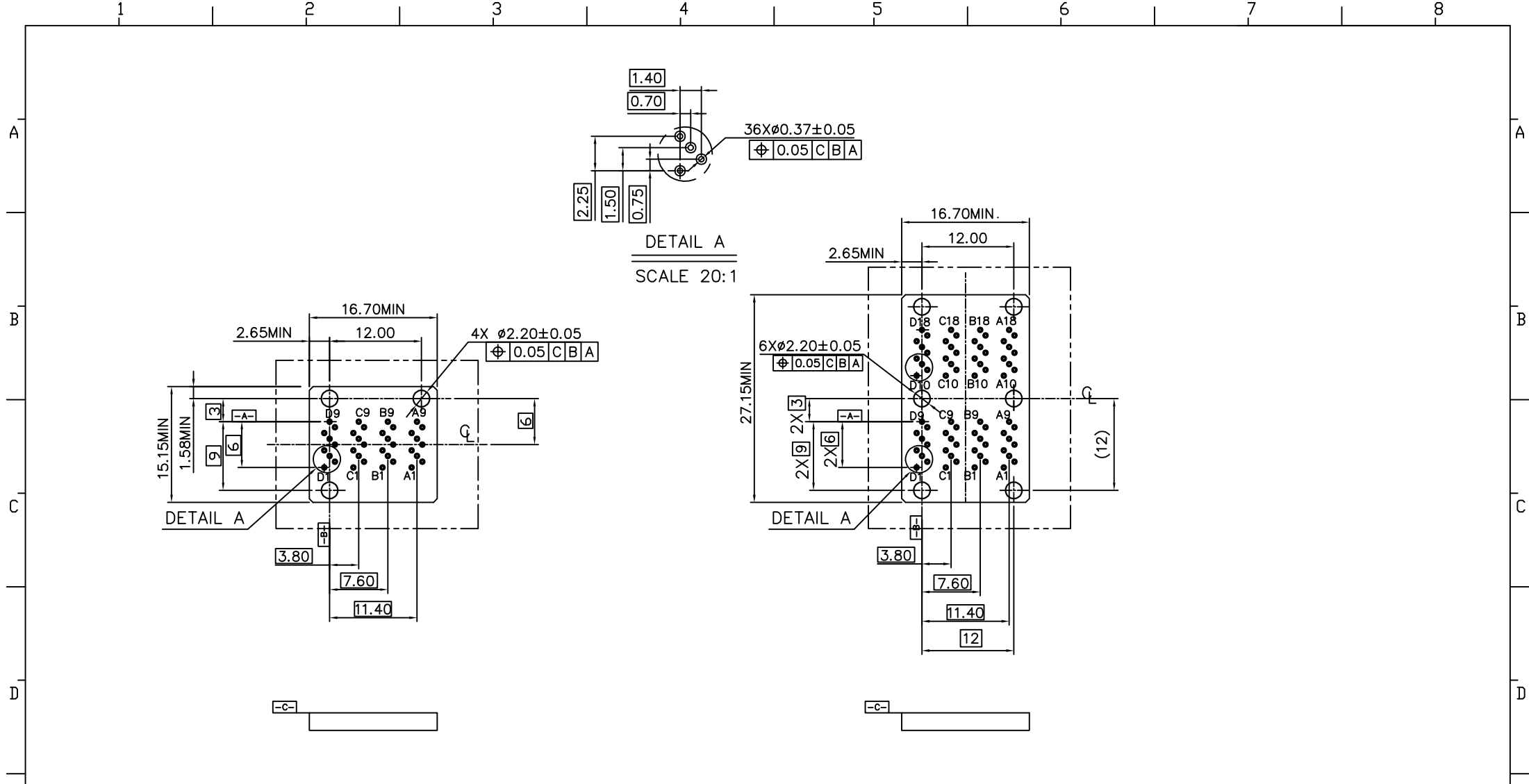
CONFIGURATION	P/N
1X2	LDH272*-63N90-*H

X.±	X.±	UNITS	mm	NAME(INTENDED USE)	 FOXCONN INTERCONNECT TECHNOLOGY LIMITED			
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.XX± 0.20	.XX±			PART NO.(INTENDED USE)	CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL			
.XXX± 0.10	.XXX±	FINISH		LDH272*-63N90-*H	TITLE: CUSTOMER DRAWING FOR MINISAS HD VERTICAL T/H TYPE			
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				CHKD:	Yen-Chih Chang	SCALE	SHEET	REV.
				DRAW:	WANG 06/09'21	N/A	5/10	GX3

GX3



SCALE	SHEET	REV.
N/A	5/10	GX3



1X1 RECOMMENDED PCB LAYOUT  
(TOLERANCE=±0.05mm)

1X2 RECOMMENDED PCB LAYOUT  
(TOLERANCE=±0.05mm)

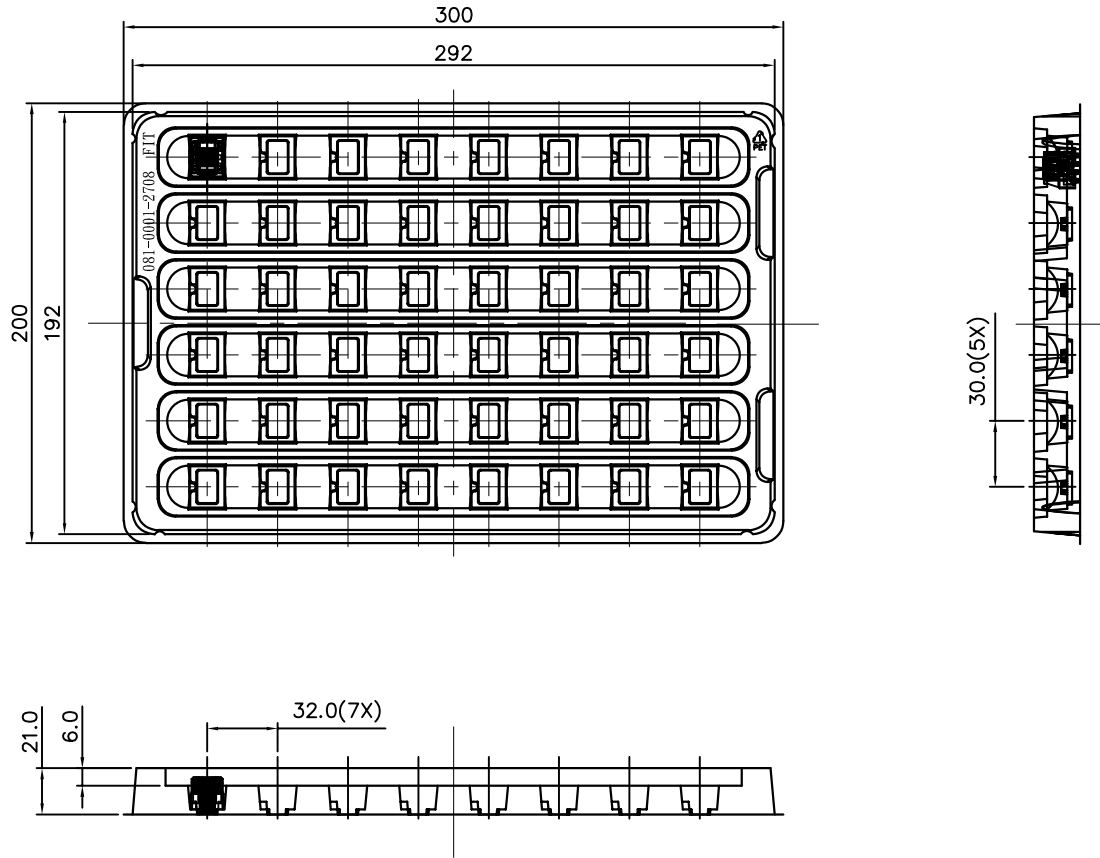
D1	D2	D3	D4	D5	D6	D7	D8	D9
SB5	SB6	GND	Tx0+	Tx0-	GND	Tx2+	Tx2-	GND
SB4	SB2	GND	Tx1+	Tx1-	GND	Tx3+	Tx3-	GND
C1	C2	C3	C4	C5	C6	C7	C8	C9
B1	B2	B3	B4	B5	B6	B7	B8	B9
SB3	SB1	GND	Rx0+	Rx0-	GND	Rx2+	Rx2-	GND
SB7	SB0	GND	Rx1+	Rx1-	GND	Rx3+	Rx3-	GND
A1	A2	A3	A4	A5	A6	A7	A8	A9

D10	D11	D12	D13	D14	D15	D16	D17	D18
SB13	SB14	GND	Tx4+	Tx4-	GND	Tx6+	Tx6-	GND
SB12	SB10	GND	Tx5+	Tx5-	GND	Tx7+	Tx7-	GND
C10	C11	C12	C13	C14	C15	C16	C17	C18
B10	B11	B12	B13	B14	B15	B16	B17	B18
SB11	SB9	GND	Rx4+	Rx4-	GND	Rx6+	Rx6-	GND
SB15	SB8	GND	Rx5+	Rx5-	GND	Rx7+	Rx7-	GND
A10	A11	A12	A13	A14	A15	A16	A17	A18

X.±	X.±	UNITS	mm	NAME(INTENDED USE)
.x± 0.30	.x'±	MAT'L		MINISAS HD
.xx± 0.20	.xx'±	FINISH		PART NO.(INTENDED USE)
.xxx± 0.10	.xxx'±	Q'TY		L DH2***-63N**-*H
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				CHKD: Yen-Chih Chang
				DRAW: WANG 06/09'21

FOXCONN® FOXCONN INTERCONNECT TECHNOLOGY LIMITED		
CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL	TITLE: CUSTOMER DRAWING FOR MINISAS HD VERTICAL T/H TYPE	
DWG NO.: 303-0000-3244		
SCALE	SHEET	REV.
N/A	6/10	GX3

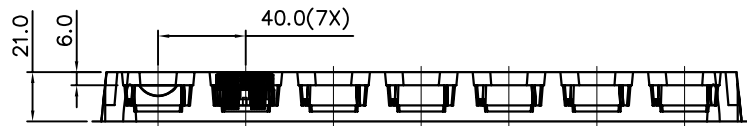
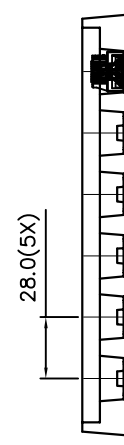
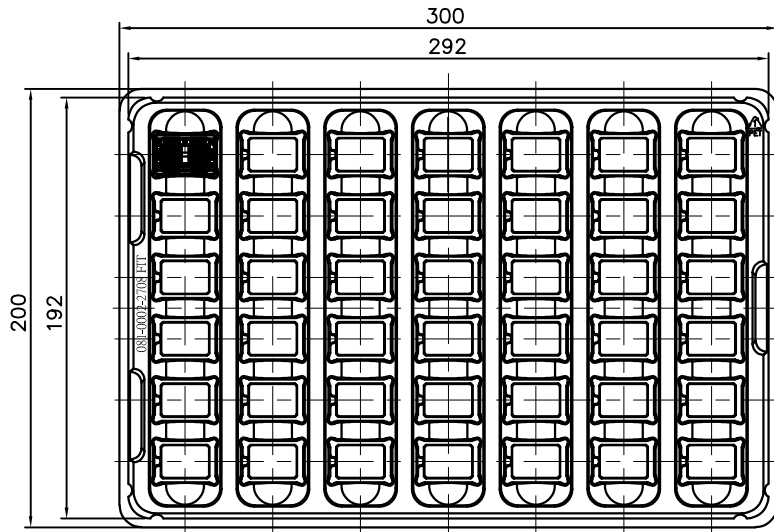
GX3



TRAY FOR LDH236\*-63N\*\*-\*H

X.±	X.±	UNITS	mm	NAME(INTENDED USE)	<b>FOXCONN®</b> FOXCONN INTERCONNECT TECHNOLOGY LIMITED		
.X± 0.30	.X'±	MAT'L		MINISAS HD			
.XX± 0.20	.XX'±			PART NO.(INTENDED USE)	CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL		
.XXX± 0.10	.XXX'±	FINISH		LDH236*-63N**-*H	TITLE: CUSTOMER DRAWING FOR MINISAS HD VERTICAL T/H TYPE		
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				CHKD:	Yen-Chih Chang		
				DRAW:	WANG 06/09'21		
					SCALE	SHEET	REV.
					N/A	7/10	GX3

GX3



TRAY FOR LDH272\*-63N\*\*-\*H

GX3

X.±	X.±	UNITS	mm	NAME(INTENDED USE)	<b>FOXCONN®</b> FOXCONN INTERCONNECT TECHNOLOGY LIMITED				
.X± 0.30	.X'±	MAT'L		MINISAS HD					
.XX± 0.20	.XX'±			PART NO.(INTENDED USE)	CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL				
.XXX± 0.10	.XXX'±	FINISH		LDH272*-63N**-*H	TITLE: CUSTOMER DRAWING FOR MINISAS HD VERTICAL T/H TYPE				
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				Q'TY	CHKD:	Yen-Chih Chang	SCALE	SHEET	REV.
					DRAW:	WANG 06/09'21	N/A	8/10	GX3



# SPECIFICATIONS :

## 1. MATERIAL AND FINISH :

### 1-1. HOUSING :

LCP , UL94V-0 , COLOR BLACK.

### 1-2. CAP :

LCP , UL94V-0 , COLOR BLACK.

### 1-3. INSERT MOLDING :

PLASTIC:LCP , UL94V-0 , COLOR BLACK.

CONTACT:PHOSPHOR BRONZE

NICKEL PLATING OVER ALL, THICKNESS 50u" MIN.

MATTE-TIN PLATING OVER NICKEL, THICKNESS 30u"MIN.

ON SOLDER AREA,GOLD PLATING OVER NICKEL ON CONTACT AREA.

### 1-4. HARMFUL MATERIAL CONTROL PLEASE FOLLOW DOC. NO. "EPI12".

## 2. ELECTRICAL :

2-1. LOW LEVEL CONTACT RESISTANCE(DRY CIRCUIT) : 30 MILLIOHMS MAX. INITIAL.

2-2. CURRENT RATING : 0.5 Amps MAX. PER PIN.

2-3. DIELECTRIC WITHSTANDING VOLTAGE : 300V DC. FOR ONE MINUTE.

2-4. INSULATION RESISTANCE : 1000 MEGAOHMS MIN. INITIAL.

## 3. MECHANICAL:

3-1. INSERTION FORCE: EIA-364-13, 100N MAX..

3-2. REMOVAL FORCE: EIA-364-13, 50N MAX..

3-3. DURABILITY: 250 CYCLES

## 4. ENVIRONMENTAL:

4-1. OPERATING TEMPERATURE : -40°C TO +105°C.

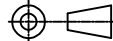
4-2. TEMPERATURE LIFE:COMPLY WITH METHOD EIA-364-17.

4-3. CYCLIC TEMP & HUMIDITY COMPLY WITH METHOD OF EIA-364-31.

## 5. WARRANTY LIFE :1 YEAR

## 6. THE CONCENTRATIONS OF Br&Cl CAN SATISFY THE REQUIREMENTS OF HALOGEN-FREE IN DOCUMENT EPI12.

**GX3**

X.±	X'±	UNITS	mm	NAME(INTENDED USE)	<b>FOXCONN®</b> FOXCONN INTERCONNECT TECHNOLOGY LIMITED			
.X± 0.30	.X'±	MAT'L		MINISAS HD				
.XX± 0.20	.XX'±			PART NO.(INTENDED USE)	CLASS: <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET <input checked="" type="checkbox"/> GENERAL			
.XXX± 0.10	.XXX'±	FINISH		LDH272*-63N**-*H	TITLE: CUSTOMER DRAWING FOR MINISAS HD VERTICAL T/H TYPE			
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED,AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED.				APPD: Shih-wei Hsiao	DWG NO.:			
				Q'TY	CHKD: Yen-Chih Chang	303-0000-3244		
				DRAW: WANG 06/09'21		<table border="1"> <tr> <td>SCALE</td> <td>SHEET</td> <td>REV.</td> </tr> <tr> <td>N/A</td> <td>9/10</td> <td>GX3</td> </tr> </table>	SCALE	SHEET
SCALE	SHEET	REV.						
N/A	9/10	GX3						

TEMPERATURE °C

300  
250  
200  
150  
100  
50

ROOM TEMP.

HEATING: 1~5°C/S

HEATING 120° ~ 217°C  
HEATING TIME: 50~150 S

HEATING: 1~5°C/S

90 SECONDS

TIME / SECONDS

260°C  
230°C  
217°C  
120°C

RECOMMENDED IR-REFLOW PROFILE FOR HIGH-TEMP. PRODUCT

SOLDERING: 2 TIMES

GX3

X.±	X'±	UNITS	mm	NAME(INTENDED USE)	<b>FOXCONN®</b> FOXCONN INTERCONNECT TECHNOLOGY LIMITED						
.X± 0.30	.X'±	MAT'L		MINISAS HD							
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