

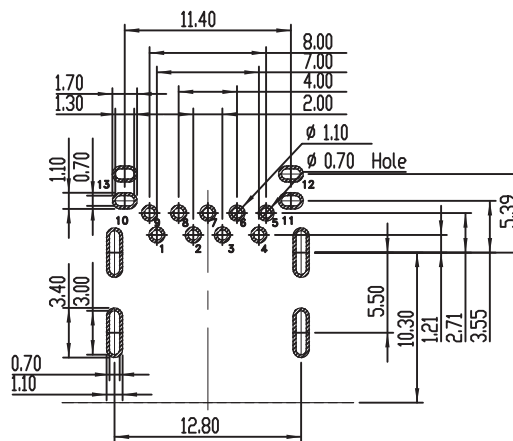
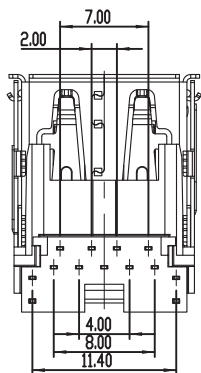
1

2

3

4

5



PCB LAYOUT - COMPONENT VIEW
RECOMMENDED PCB THICKNESS : 1.60 mm

TECHNICAL CHARACTERISTICS

MATERIAL
INSULATOR: PA9T
FLAMMABILITY RATING: UL94-V0
COLOR: BLUE
CONTACT MATERIAL: COPPER ALLOY
CONTACT PLATING: GOLD OVER Pd-Ni
CONTACT AREA: 30 μ m Pd-Ni+2 μ m Gold
SOLDER TAIL AREA: 100 to 200 μ m Tin
QUALITY CLASS: 5 000 MATING CYCLES

ENVIRONMENTAL
OPERATING TEMPERATURE: -20°C UP TO +85°C
COMPLIANCE: LEAD FREE & ROHS

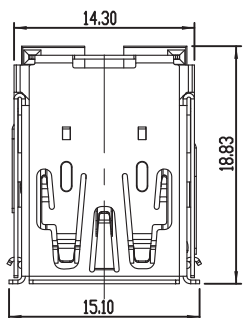
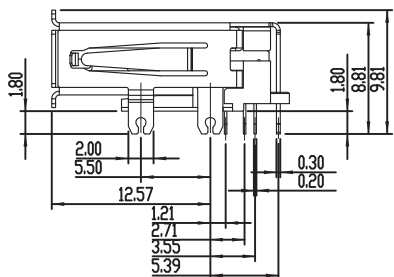
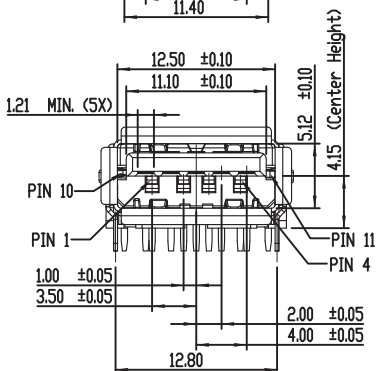
ELECTRICAL
CURRENT RATING: 5 A MAX
WORKING VOLTAGE: 20 VDC MAX
DIELECTRIC WITHSTANDING VOLTAGE: 100 VAC/MIN
INSULATION RESISTANCE: > 100 M Ω
CONTACT RESISTANCE:
- PIN 1 & PIN 4: 30 m Ω MAX
- OTHER PINS: 50 m Ω MAX

MECHANICAL
INSERTION FORCE: 35.0N MAX
EXTRACTION FORCE: 10.0N MIN

SOLDERING
JEDEC LEAD FREE WAVE & REFLOW SOLDERING PROCESS

PACKAGING
TRAY

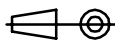
Pin Number	Signal Name
1	VBUS
2	D-
3	D+
4	GND
5	StdA_SSRX-
6	StdA_SSRX+
7	GND_DRAIN
8	StdA_SSTX-
9	StdA_SSTX+
10	PD DETECT
11	INSERTION DETECT
12	SHELL (Shield)
13	SHELL (Shield)



RoHS Compliant

G			
F			
E			
D	21-OCT-15	SOLDERING	AK
C	15-SEP-15	UPDATE	AK
B	08-SEP-15	QUALITY CLASS	AK
A	09-JUN-15	PDF	AK
REV	DATE	FILE	BY

PROJECTION:



APPROVAL: NPR

GENERAL TOLERANCE

.X = +/- 0.2
.XX = +/- 0.15

UNIT: MM

SCALE:

SHEET: 1/4

DRAW: AK



DESCRIPTION: USB3.1 TYPE A RECEPTACLE - HORIZONTAL THT - POWER DELIVERY

WERI PART NO: 632 121 300 001

SIZE

A4

A

B

C

D

1

2

3

4

5

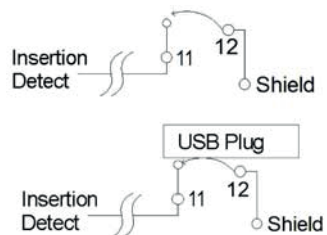
A

B

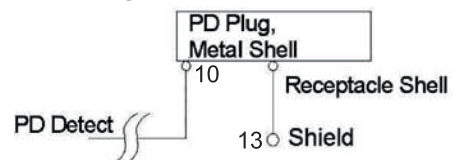
C

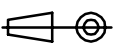

D

Standard-A Insertion Detect Schematic Representation



PD Plug Standard-A Detection Circuit



RoHS Compliant				PROJECTION: 	GENERAL TOLERANCE .X = +/- 0.2 .XX = +/- 0.15	
G						
F						
E						
D						
C			APPROVAL: NPr	UNIT: MM	DESCRIPTION: USB3.1 TYPE A RECEPTACLE - HORIZONTAL THT - POWER DELIVERY	SIZE A4
B				SCALE:		
A				SHEET: 2/4		
REV	DATE	FILE	BY	DRAW: AK	WERI PART NO: 632 121 300 001	

1

2

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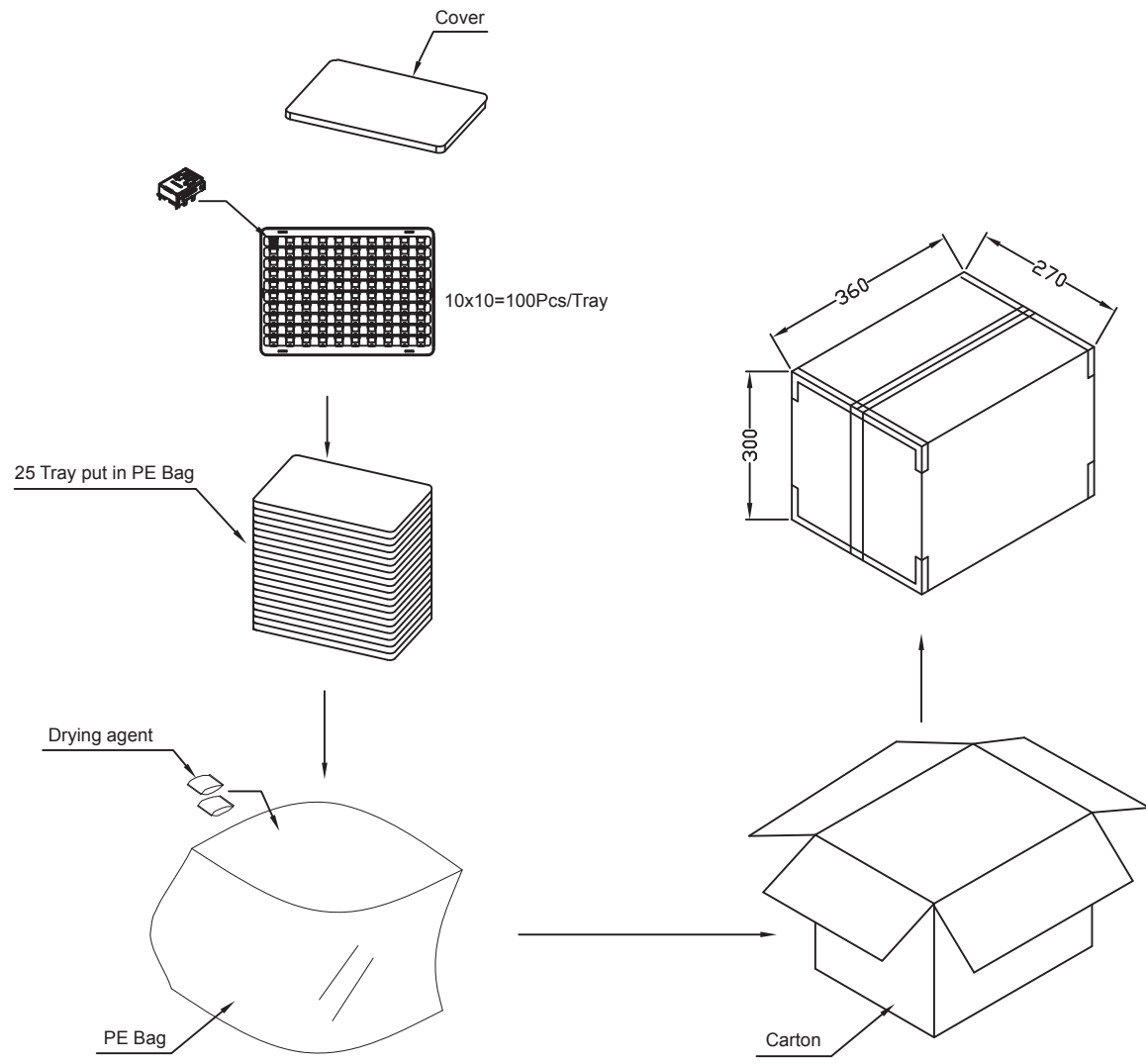
5

A

B

C

D



RoHS Compliant

G			
F			
E			
D			
C			
B			
A			
REV	DATE	FILE	BY

PROJECTION:

GENERAL TOLERANCE

.X = +/- 0.2

.XX = +/- 0.15

WÜRTH ELEKTRONIK

APPROVAL: NPr

UNIT: MM

SCALE:

SHEET: 3/4

DRAW: AK

DESCRIPTION: USB3.1 TYPE A RECEPTACLE - HORIZONTAL THT - POWER DELIVERY

WERI PART NO: 632 121 300 001

SIZE

A4

1

2

3

4

5

Cautions and Warnings:

This electronic component is designed and developed with the intention for use in general electronics equipments.

Before incorporating the components into any equipments in the field such as aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body, Würth Elektronik must be asked for a written approval.

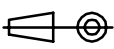

In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before by the user before usage.

A

B

C

RoHS Compliant

G				PROJECTION: 	GENERAL TOLERANCE .X = +/- 0.2 .XX = +/- 0.15		
F							
E							
D							
C				APPROVAL: JC	UNIT: MM	DESCRIPTION: DISCLAIMER	SIZE A4
B					SCALE:		
A	10-SEP-14	PDF	QL		SHEET: 4/4	WERI PART NO: DISCLAIMER	
REV	DATE	FILE	BY		DRAW: QL		

D

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