

PCB LAYOUT \* - COMPONENT VIEW

## TECHNICAL CHARACTERISTICS

### MATERIAL

INSULATOR: LCP

FLAMABILITY RATING: UL94-V0

COLOR: BLUE

CONTACT MATERIAL: PHOSPHORE BRONZE

CONTACT TYPE: STAMPED

CONTACT PLATING: UNDERPLATE 1.27 to 2.54 µm Ni

CONTACT AREA 0.76 µm Gold

SOLDER TAIL AREA 2.54 to 5.08 µm Matt Tin

SHIELDING: BRASS MATT TIN PLATED

### ENVIRONMENTAL

OPERATING TEMPERATURE: -20 up to +85°C

COMPLIANCE: RoHS & LEAD FREE AS PER DIRECTIVE 2002/95/EC

HALOGEN FREE COMPLIANT AS PER IEC 61249-2-21

### ELECTRICAL

CURRENT RATING:

- PIN 1 & PIN 4 (Vbus & corresponding ground PIN) 1.8A Max

- OTHER PINS 0.25 A Max

WORKING VOLTAGE: 30Vac

DIELECTRIC WITHSTANDING VOLTAGE: 100Vac/min

INSULATION RESISTANCE: > 100MΩ

CONTACT RESISTANCE:

- PIN 1 & PIN 4: 30mΩ Max

- OTHER PINS: 50mΩ Max

### STANDARD

CE CERTIFIED: E323964 / MODEL NUMBER 692122030100

### MECHANICAL

INSERTION FORCE: 35.0N Max

EXTRACTION FORCE: 10.0N min

QUALITY CLASS: 5000 MATING CYCLES


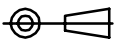



### SOLDERING

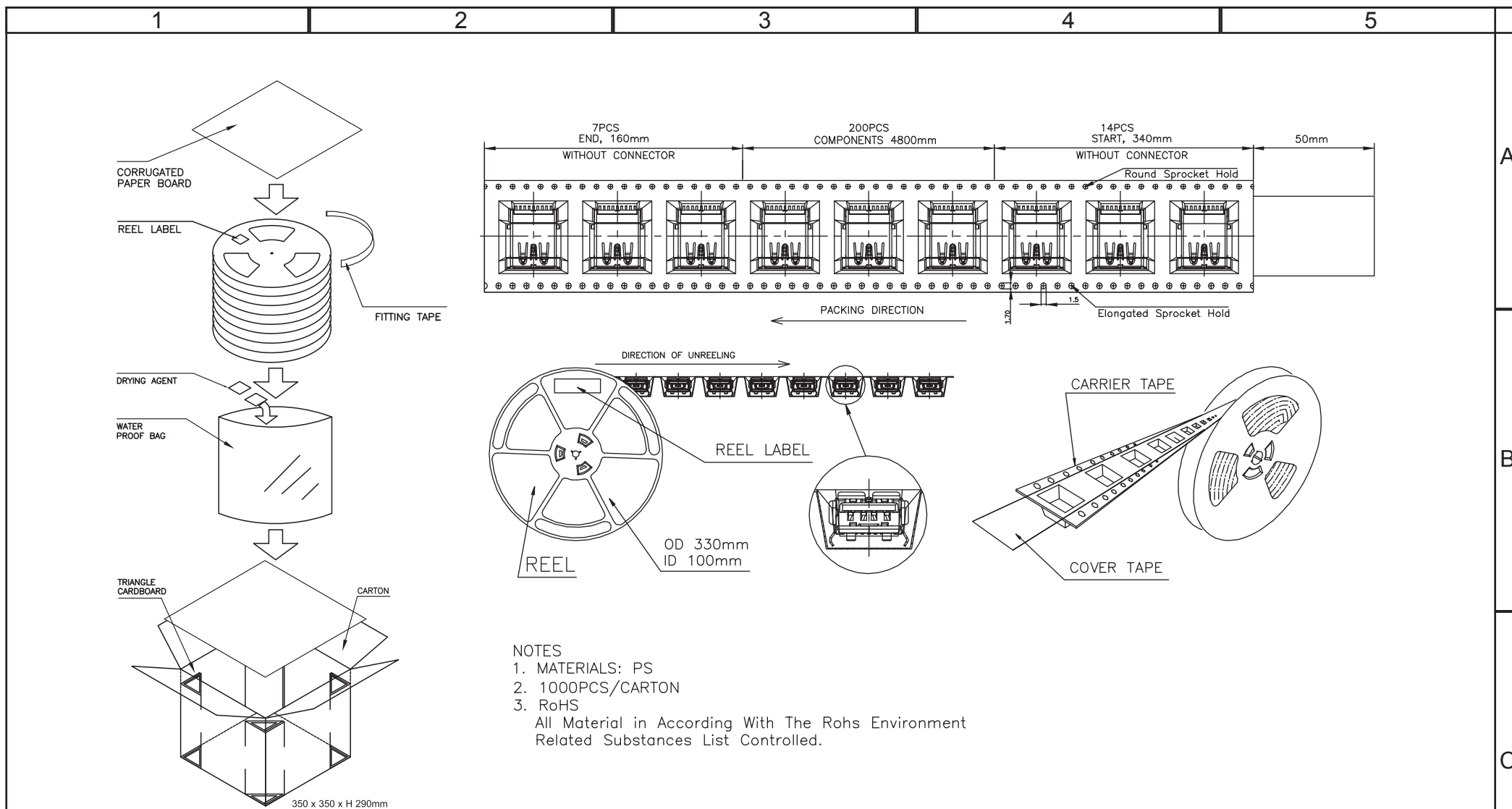
REFLOW PROCESS AS PER JEDEC J-STD-020D

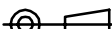

### PACKAGING

TAPE & REEL

\* NOTE: THE RECOMMENDED PCB LAYOUT IS FOR AN OPTIMIZED RETENTION FORCE OF CONNECTOR ON PCB BUT IT IMPLIES INSERTION FORCE THAT A LOT OF PICK AND PLACE MACHINES ARE NOT ABLE TO HANDLE. THEREFORE IT MIGHT BE NECESSARY TO DRILL BIGGER HOLES FOR THE CLIPS. PLEASE CHECK THIS CAREFULLY.

RoHS Compliant				PROJECTION:	GENERAL TOLERANCE		DESCRIPTION: USB 3.0 HORIZONTAL TYPE A	SIZE
G	01-APR-14	SOLDERING	QL					
F	17-SEP-13	CHARACTERISTICS	QL		.X = +/- 0.2		<b>WERI PART NO: 692 122 030 100</b>	<b>A4</b>
E	10-SEP-13	DIM UPDATE	QL		.XX = +/- 0.15			
D	09-NOV-11	STENCIL	GG					
C	21-SEP-11	NOTE	GG					
B	10-MAY-11	UL	GG					
A	04-AUG-10	PDF	JP	APPROVAL: RJ	UNIT: MM		<b>WERI PART NO: 692 122 030 100</b>	<b>A4</b>
REV	DATE	FILE	BY		SCALE:			
					SHEET: 1/3		<b>WERI PART NO: 692 122 030 100</b>	<b>A4</b>
					DRAW: JOE			



RoHS Compliant							
G				<div>PROJECTION:</div> <div></div>	<div>GENERAL TOLERANCE</div> <div>.X = <math>\pm</math> 0.2</div> <div>.XX = <math>\pm</math> 0.15</div>	<div></div>	
F							
E							
D							
C				APPROVAL: RJ	UNIT: MM	DESCRIPTION: USB 3.0 HORIZONTAL TYPE A	SIZE <b>A4</b>
B					SCALE:		
A					SHEET: 2/3	WERI PART NO: 692 122 030 100	
REV	DATE	FILE	BY		DRAW: JOE		

1

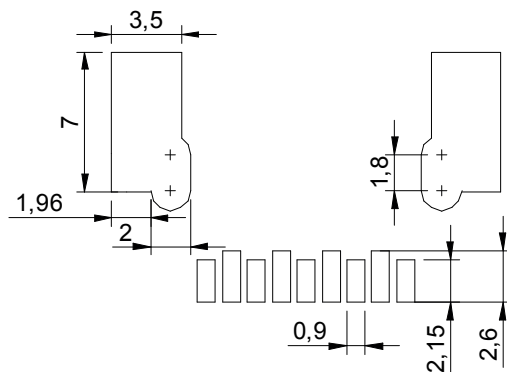
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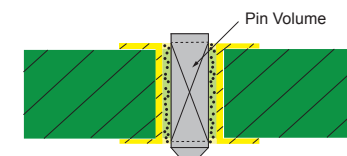
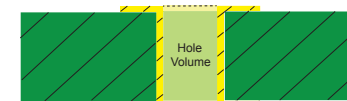
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## Stencil information for Through Hole Reflow soldering



STENCIL LAYOUT \* - COMPONENT VIEW

## PCB cross section



Free volume for solder paste

## Theoretical Formula for Through Hole pins

Volume of the stencil aperture = (Hole volume - Pin volume) x 2

or

Volume of solder paste = (Hole volume - Pin volume) x 2

Stencil

Stencil Thickness: 150 µm

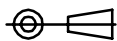
PCB

PCB thickness: 1.6mm

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\* NOTE: SEE PCB LAYOUT PAGE 1/3 FOR MISSING DIMENSIONS

PROJECTION:



GENERAL TOLERANCE

.X =  $\pm 0.2$ .XX =  $\pm 0.15$ 

APPROVAL: RJ

UNIT: MM

SCALE:

SHEET: 3/3

DRAW: JOE

DESCRIPTION: USB 3.0 HORIZONTAL TYPE A

WERI PART NO: 692 122 030 100

SIZE

A4



1

2

3

4

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RoHS Compliant

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E

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C

B

A

REV

25/01/2018

DATE


UPDATE

FILE

ESo

BY

PROJECTION:



APPROVAL: JC


GENERAL TOLERANCE

UNIT: MM

SCALE:

SHEET: 2/2

DRAW: ESo



DESCRIPTION: DISCLAIMER

WERI PART NO: DISCLAIMER

SIZE

A4

A

B

C

D