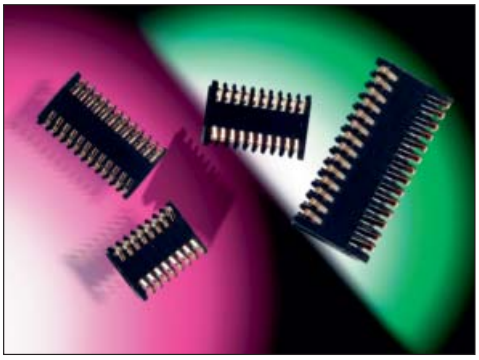
Dual Row Stacker: BTB

00-9158



The MOBO® series 9158 is a one-piece connector used to connect two PCBs within mobile phones, pagers, PDAs, security, handheld scanners, etc. in a cost-effective manner.

A standard range is available with 16, 20, 24 and 28 contacts to suit stack heights of 1.90mm to 3.30mm. Other contact variants are also available up to 5.10mm, in custom housings. The SOLO STACKER can allow a spacing tolerance of up to ±0.30mm and still provide reliable connections between the PCBs, even if they are not parallel.

SOLO STACKER is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards.

Whatever your requirements this SOLO STACKER can also be customized to suit your applications.

APPLICATIONS

- Mobile Phones
- PDA
- Medical
- PMR
- Industrial
- Security
- Handheld Scanner

FEATURES AND BENEFITS

- Reduced assembly time.
- Only one part to purchase and stock.
- Due to the unique contact design, the mating device does not have to be parallel.
- Extremely robust when subjected to shock and vibration.
- Cost effective.
- Helps reduce tolerance accumulation within system.

ELECTRICAL

- Current Rating: 1 Amp/Contact
- Voltage Rating: 125V
  Based on placement distance

ENVIRONMENTAL

- Operating Temperature:
  -55ºC to +125ºC

MECHANICAL

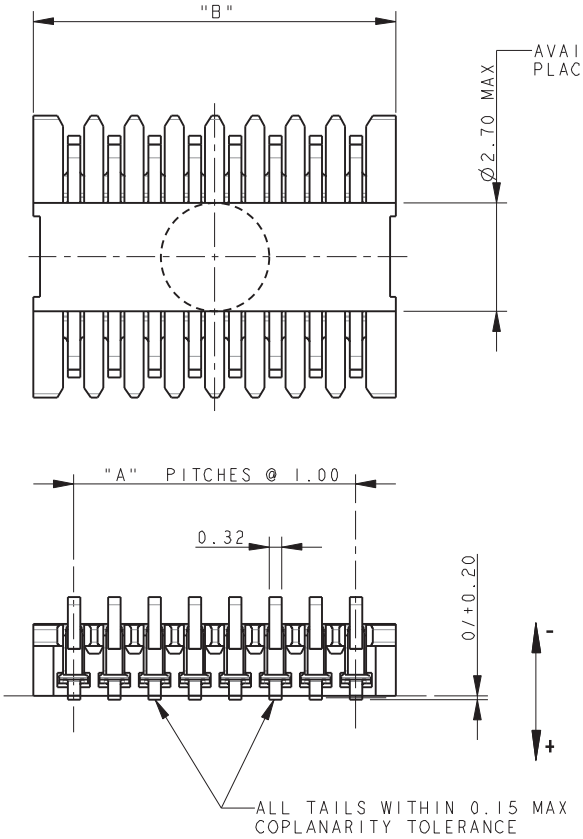
- Insulator Material: High Temperature Plastic; UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 50 Cycles

HOW TO ORDER

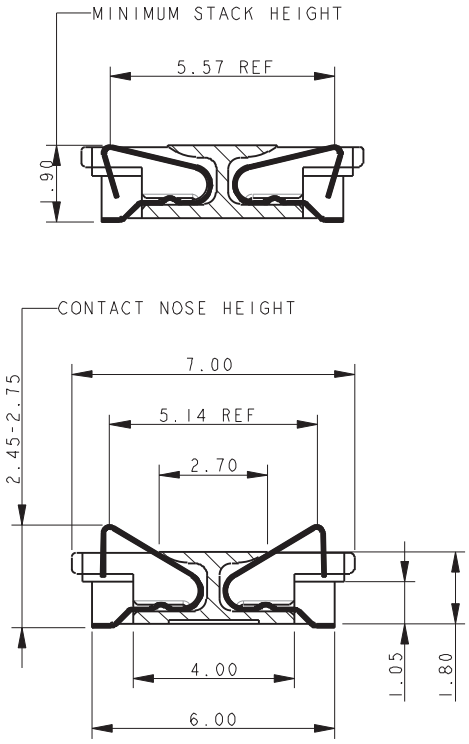
00	9158	0XX	0XX	06	X
Prefix	**Series**	**Number of Ways** 016 = 16 020 = 20 024 = 24 028 = 28	**Stack Height** 020 = 1.9mm to 2.1mm 025 = 2.1mm to 2.7mm 030 = 2.8mm to 3.3mm	**Plating Variation** 06 = Selective Gold 0.25µm Gold Plated Contact Nose Pure Tin Tail	**PCB Location Bosses** 1 = With PCB Location Bosses 2 = Without PCB Location Bosses

RoHS COMPLIANT

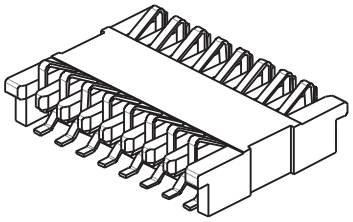
2.0MM DUAL ROW STACKER WITHOUT BOSSES



MATING CONDITION



NOTES:
1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 116 FOR DETAILS.
4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 1.90MM TO 2.10MM.
5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



No of Positions	Part Number	A	B
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
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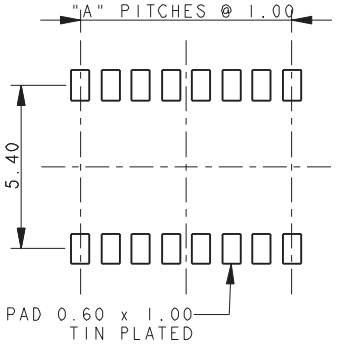
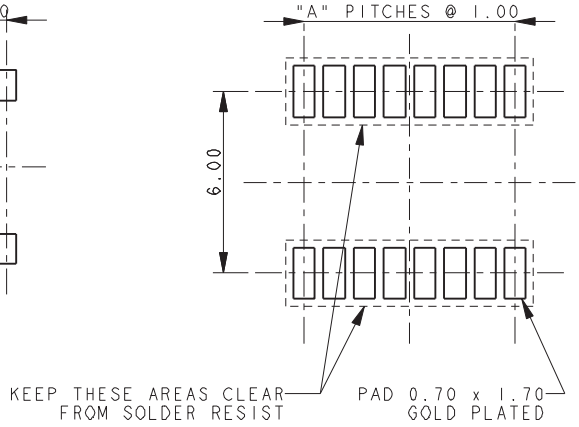
28	00-9158-028-020-062	13	15.00

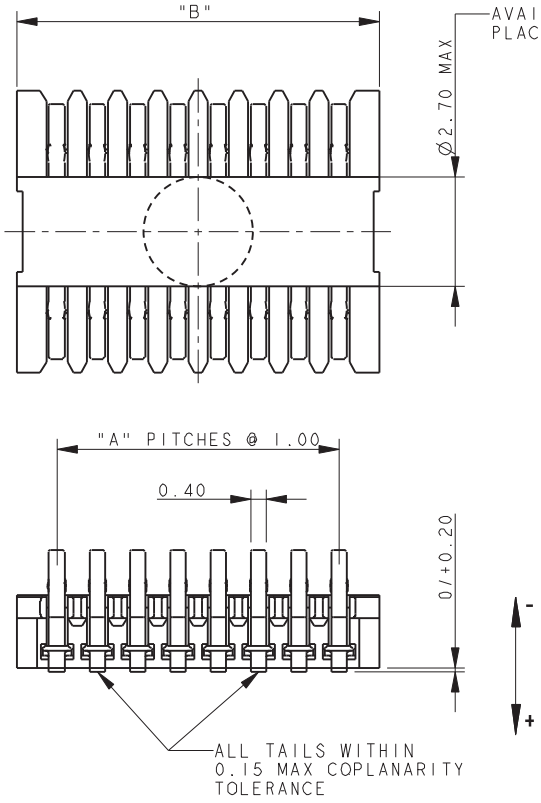
SMT PCB FOOTPRINT



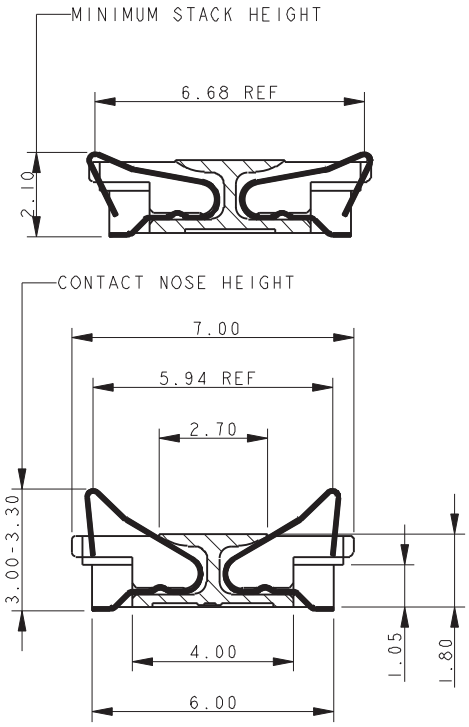
MATING PCB FOOTPRINT

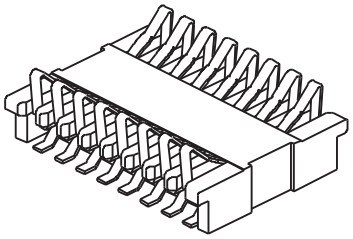


2.5MM DUAL ROW STACKER WITHOUT BOSSES



MATING CONDITION





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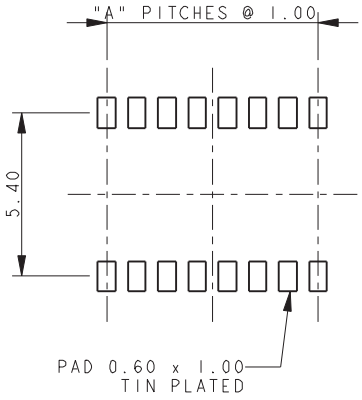
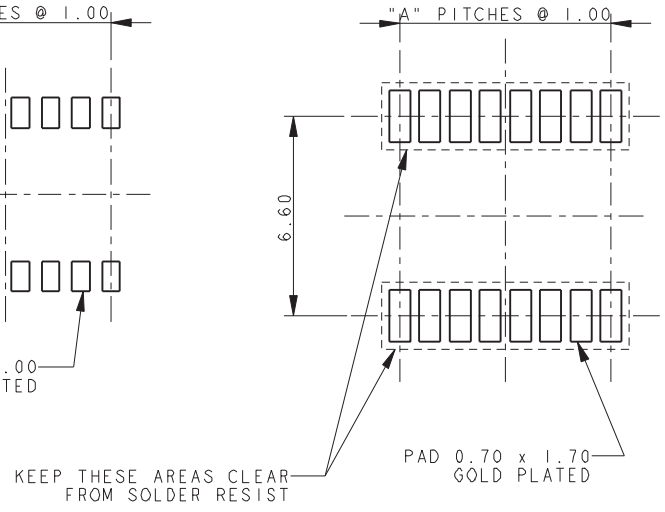
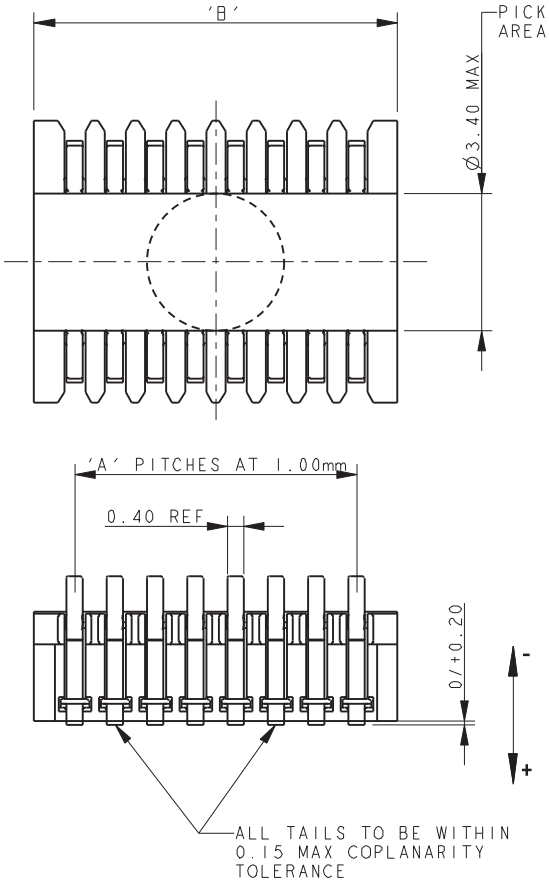
SMT PCB FOOTPRINT



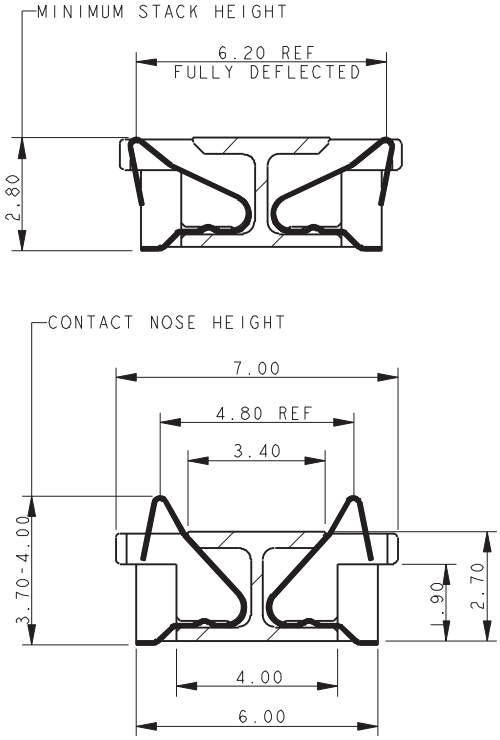
MATING PCB FOOTPRINT

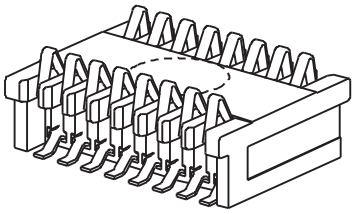


3.0MM DUAL ROW STACKER WITHOUT BOSSES



MATING CONDITION





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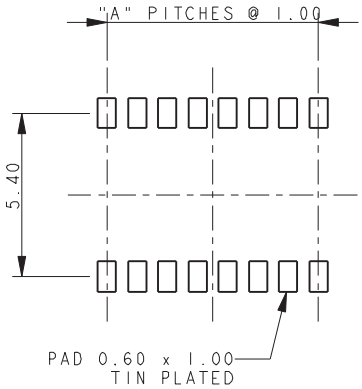
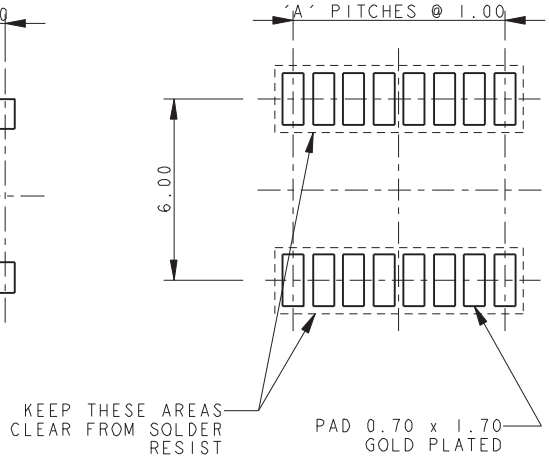
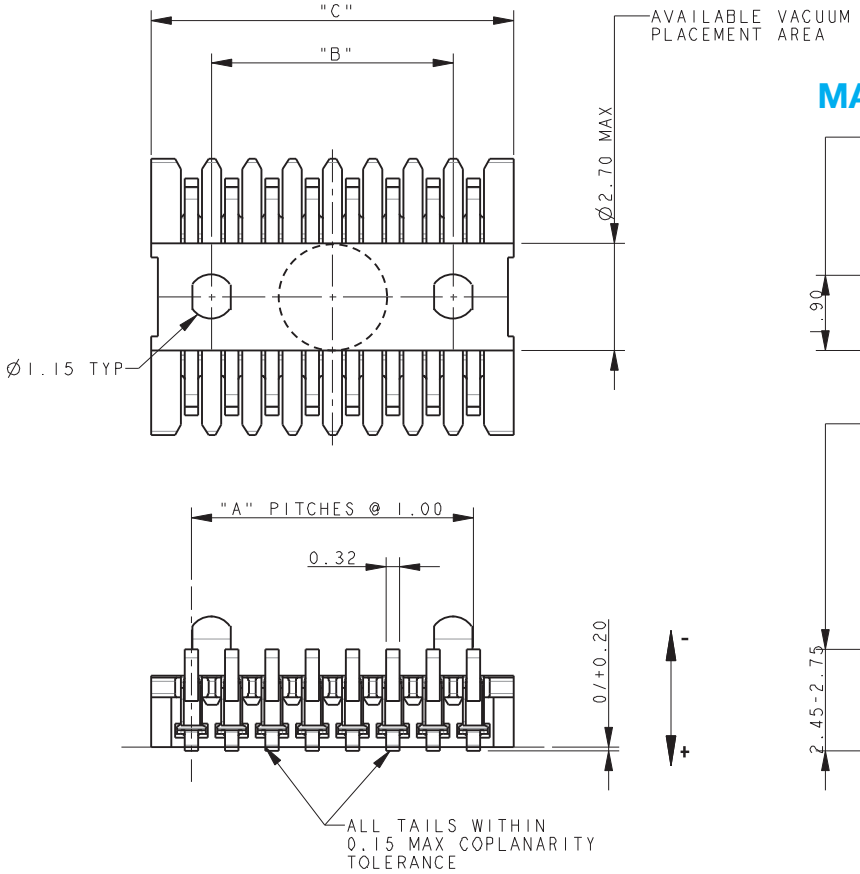
SMT PCB FOOTPRINT



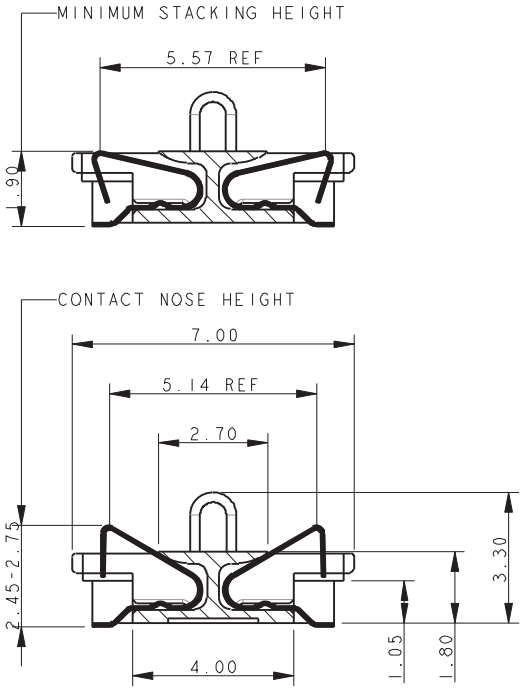
MATING PCB FOOTPRINT

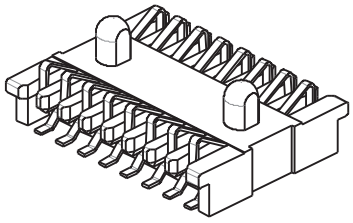


2.0MM DUAL ROW STACKER WITH BOSSES



MATING CONDITION





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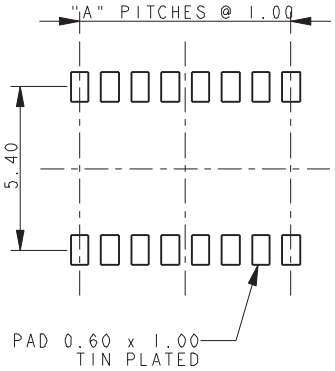
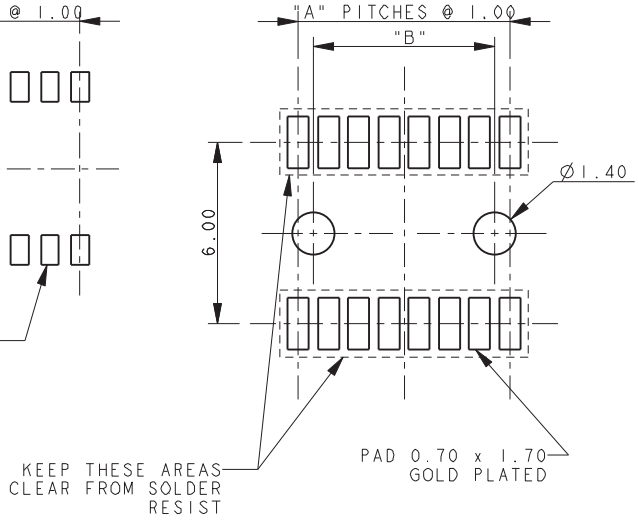
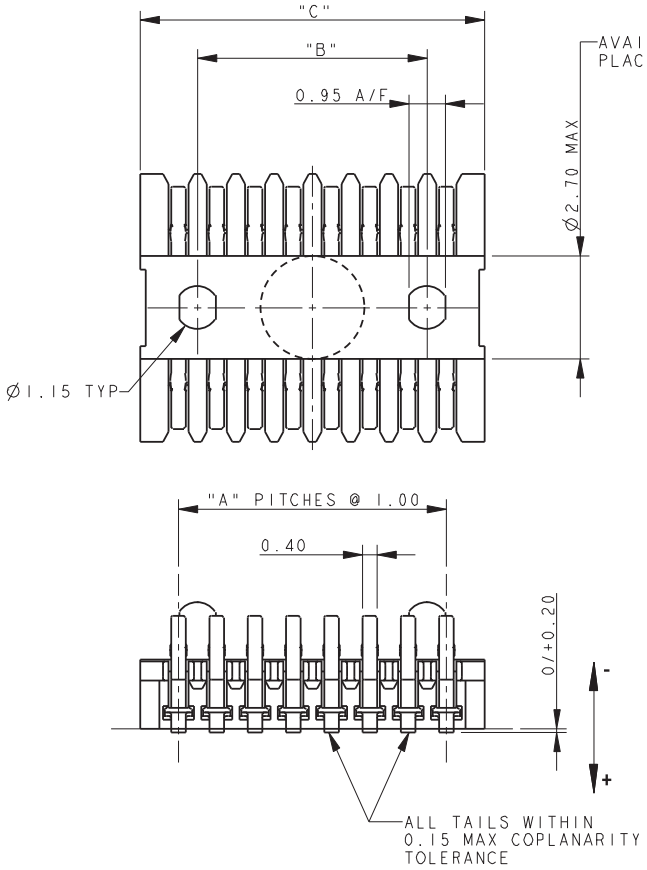
SMT PCB FOOTPRINT



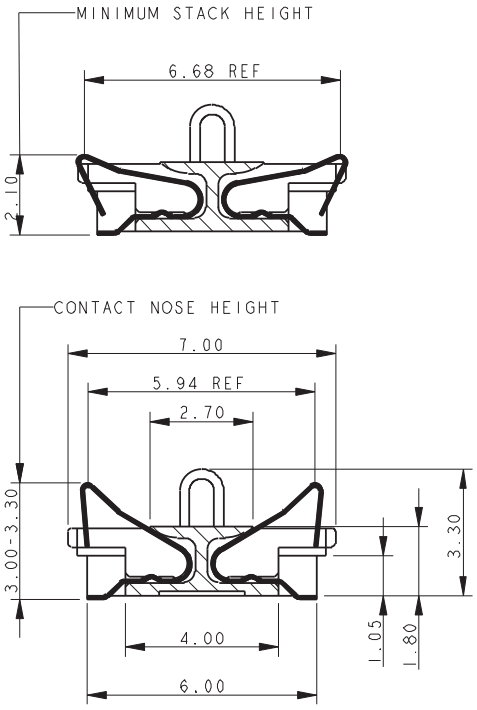
MATING PCB FOOTPRINT



2.5MM DUAL ROW STACKER WITH BOSSES



MATING CONDITION



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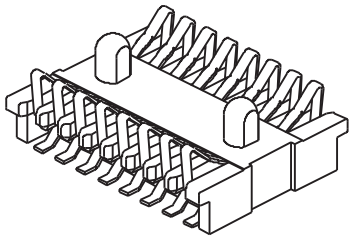

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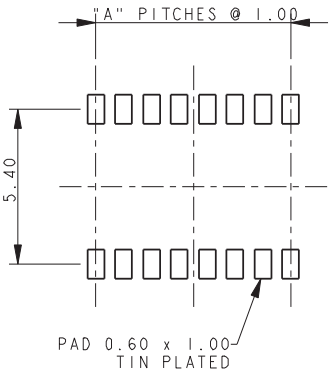
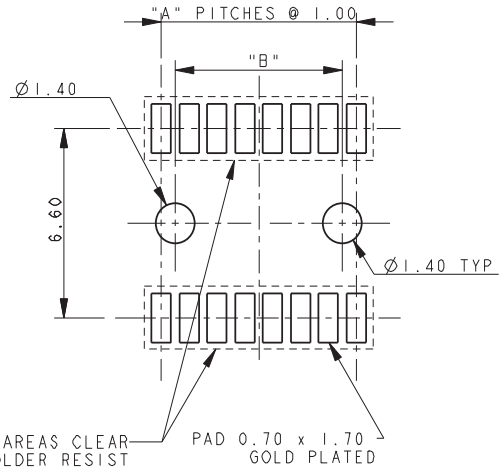
SMT PCB FOOTPRINT



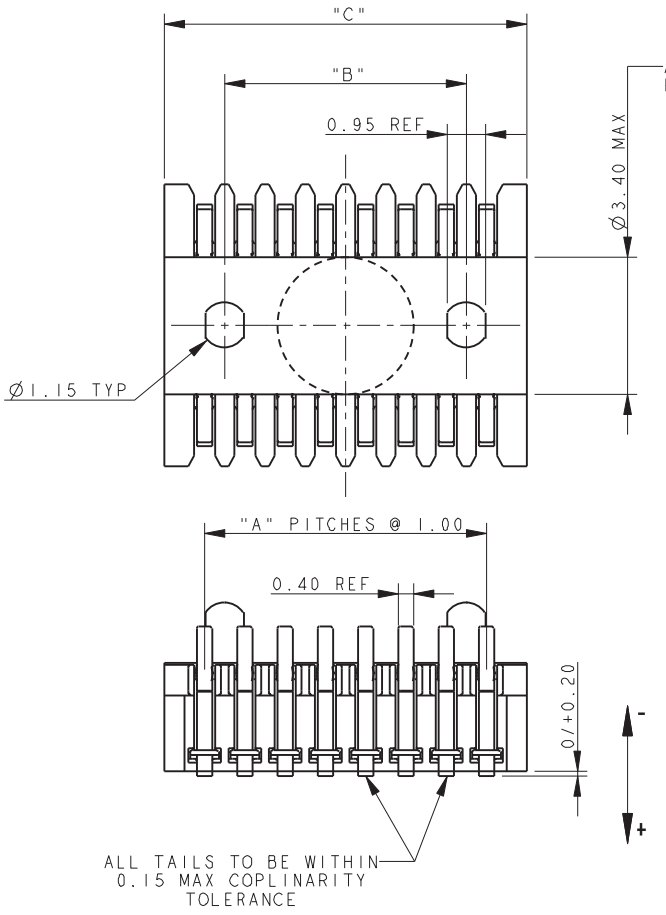
MATING PCB FOOTPRINT



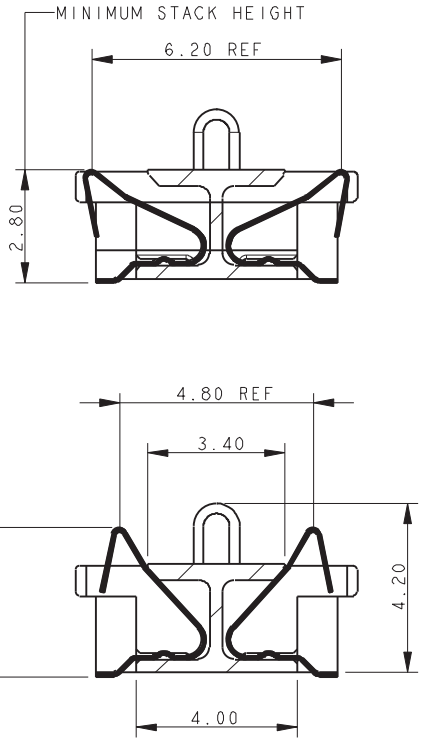
Dual Row Stacker: BTB

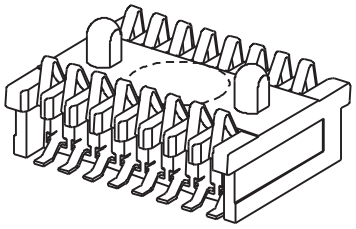
00-9158

3.0MM DUAL ROW STACKER WITH BOSSES



MATING CONDITION





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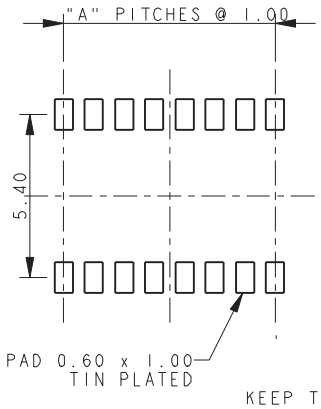
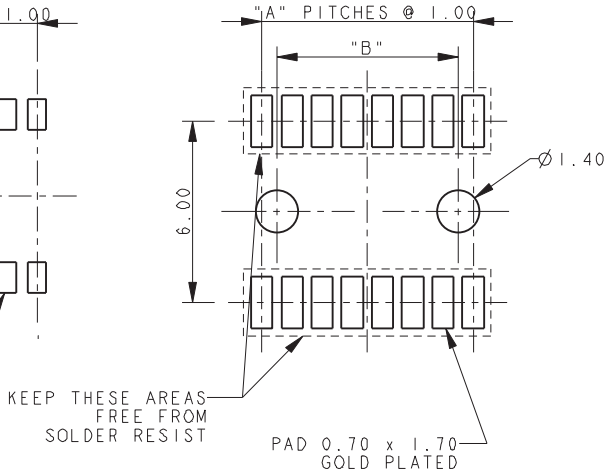
SMT PCB FOOTPRINT



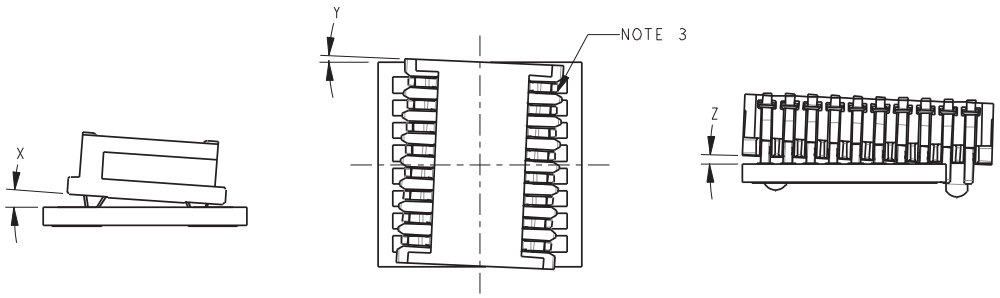
MATING PCB FOOTPRINT



Dual Row Stacker: BTB

00-9158

LIMITS TO PCB MISALIGNMENT



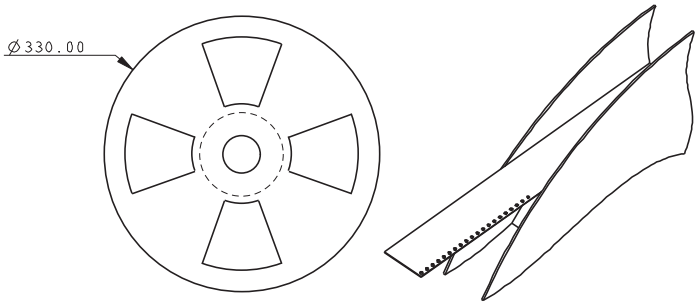
SIDE TILT "X" TWIST "Y" END TILT "Z"

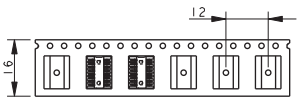
Code (See page 107)	Stack Height (Note 1)	Max Angle Degrees on Axis (Note 4)	Number of Ways			
			16	20	24	28
020	1.9mm to 2.1mm	X	2.0	2.0	2.0	2.0
		Y	3.5	3.5	3.5	3.5
		Z	2.0	1.5	1.0	1.0
025	2.1mm to 2.7mm	X	4.0	4.0	4.0	4.0
		Y	2.5	2.5	2.5	2.5
		Z	4.0	3.0	2.5	2.0
030	2.7mm to 3.3mm	X	4.0	4.0	4.0	4.0
		Y	2.5	2.5	2.5	2.5
		Z	3.5	2.5	2.0	2.0

NOTES:
1. PCB STACK HEIGHT (REF PAGE 109). THIS IS THE CONTROLLING LIMIT ON THE GAP BETWEEN THE TWO PCB FACES AT ANY POINT WHEN IN THE FINAL MATED POSITION.
2. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
3. IT IS CRITICAL THAT ON ASSEMBLY THE CONTACT NOSES DO NOT STRAY OUTSIDE OF THE MATING PAD AREA IN THE FINAL MATED POSITION.
4. THE MAXIMUM MISALIGNMENT ABOUT ANY ONE AXIS IN DEGREES. SEE NOTES 1 AND 3.

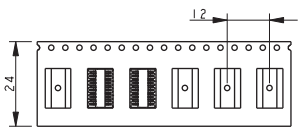
PACKING DETAILS 9158 SOLO STACKER CONNECTORS

No of Positions	Stack Height	Bosses	Part Number	Tape Width	Reel Qty.
16	2.0	Yes	00-9158-016-020-0X1	16	1250
16	2.0	No	00-9158-016-020-0X2	16	1500
16	2.5	Yes	00-9158-016-025-0X1	16	1250
16	2.5	No	00-9158-016-025-0X2	16	1250
16	3.0	Yes	00-9158-016-030-0X1	16	1100
16	3.0	No	00-9158-016-030-0X2	16	1100
20	2.0	Yes	00-9158-020-020-0X1	24	1250
20	2.0	No	00-9158-020-020-0X2	24	1500
20	2.5	Yes	00-9158-020-025-0X1	24	1250
20	2.5	No	00-9158-020-023-0X2	24	1250
20	3.0	Yes	00-9158-020-030-0X1	24	1100
20	3.0	No	00-9158-020-030-0X2	24	1100
24	2.0	Yes	00-9158-024-020-0X1	24	1250
24	2.0	No	00-9158-024-020-0X2	24	1500
24	2.5	Yes	00-9158-024-025-0X1	24	1250
24	2.5	No	00-9158-024-025-0X2	24	1250
24	3.0	Yes	00-9158-024-030-0X1	24	1100
24	3.0	No	00-9158-024-030-0X2	24	1100
28	2.0	Yes	00-9158-028-020-0X1	24	1250
28	2.0	No	00-9158-028-020-0X2	24	1500
28	2.5	Yes	00-9158-028-025-0X1	24	1250
28	2.5	No	00-9158-028-025-0X2	24	1250
28	3.0	Yes	00-9158-028-030-0X1	24	1100
28	3.0	No	00-9158-028-030-0X2	24	1100

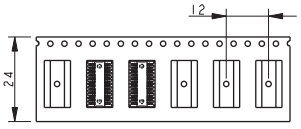




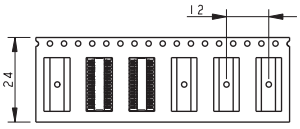
TYPICAL 16 WAY
(SHOWN WITH BOSSES)



TYPICAL 20 WAY
(SHOWN WITHOUT BOSSES)



TYPICAL 24 WAY
(SHOWN WITH BOSSES)



TYPICAL 28 WAY
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