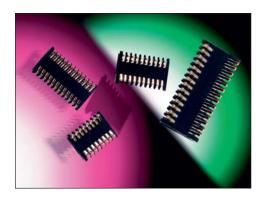
Dual Row Stacker: BTB







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 ± 0.30 mm 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

ELECTRICAL

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

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.

ENVIRONMENTAL

• Operating Temperature: -55°C to +125°C

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
T		
Prefix	Series	Number of Ways
		016 = 16
		020 = 20
		024 = 24

028 = 28

0XX
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

06



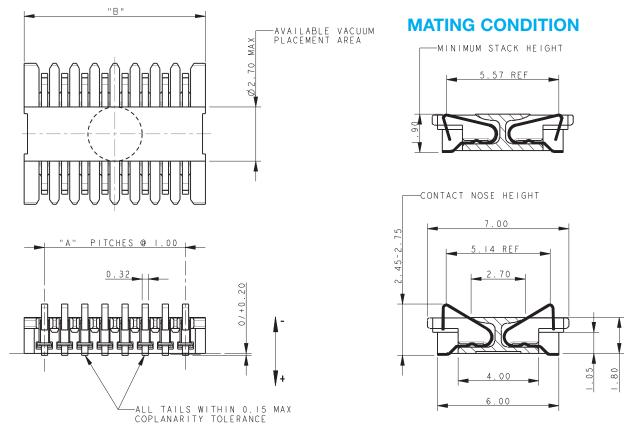
PCB Location Bosses 1 = With PCB Location Bosses 2 = Without PCB Location Bosses





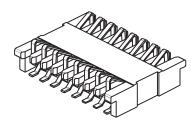


2.0MM DUAL ROW STACKER WITHOUT BOSSES



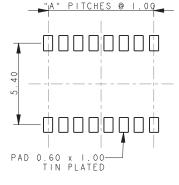
NOTES:

- 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 8 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.

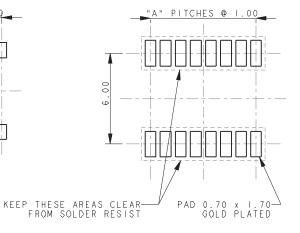


No of Positions	Part Number	A	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT

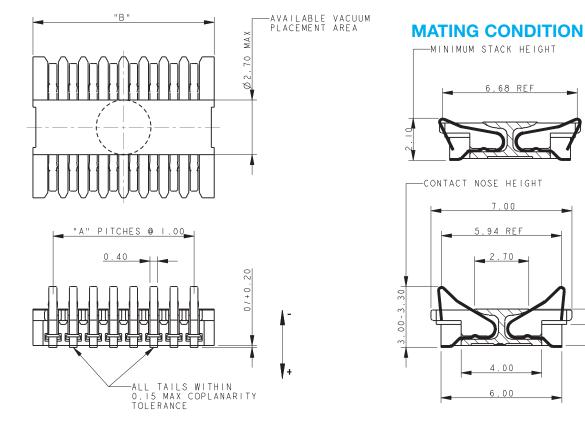


MATING PCB FOOTPRINT



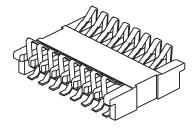


2.5MM DUAL ROW STACKER WITHOUT BOSSES

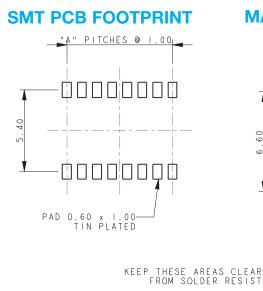


NOTES:

- 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 8 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 2,10MM TO 2,70MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



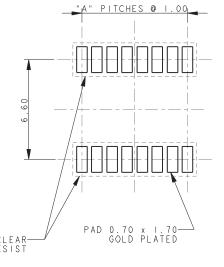
No of Positions Part Number		Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00



/AV/X

MATING PCB FOOTPRINT

80

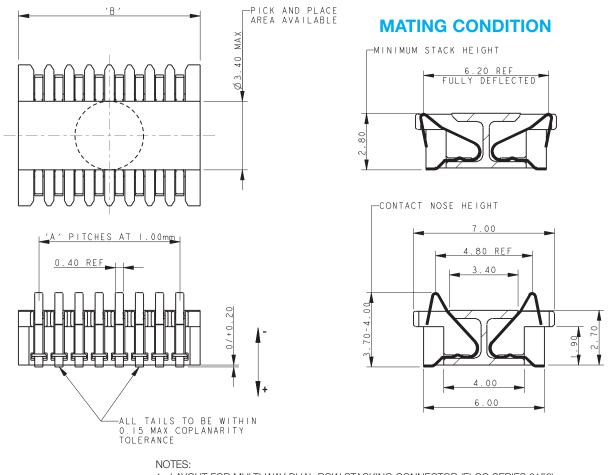


Downloaded from Arrow.com.

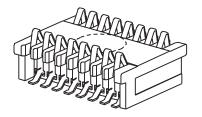
Dual Row Stacker: BTB 00-9158



3.0MM DUAL ROW STACKER WITHOUT BOSSES



- 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 8 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 2.80MM TO 3.30MM.
- NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



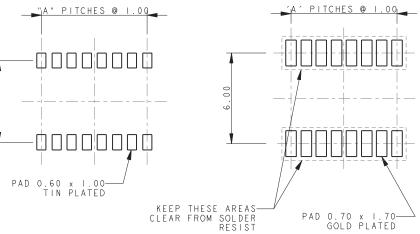
No of Positions	Part Number	A	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT

40

5

MATING PCB FOOTPRINT

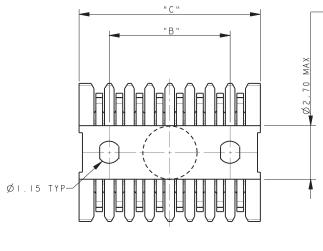


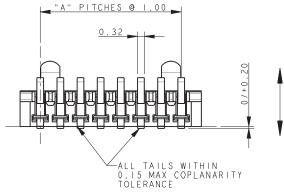


Dual Row Stacker: BTB 00-9158



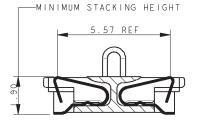
2.0MM DUAL ROW STACKER WITH BOSSES

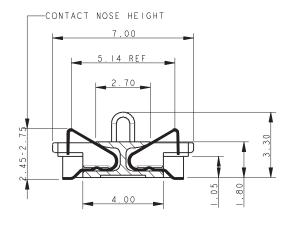




-AVAILABLE VACUUM PLACEMENT AREA

MATING CONDITION





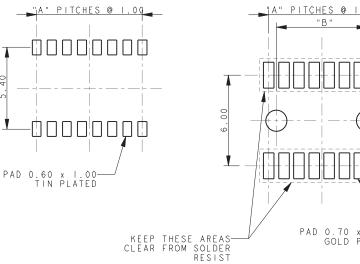
NOTES:

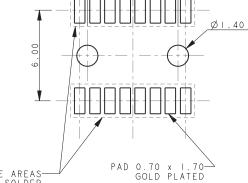
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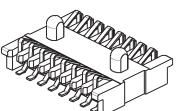
- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 8 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 1.90MM TO 2.10MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.

MATING PCB FOOTPRINT

00



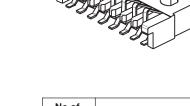




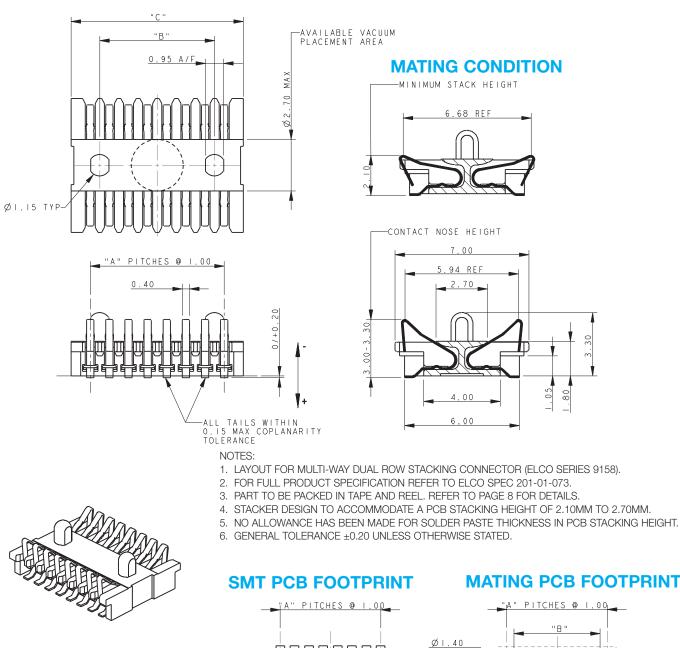
No of Positions Part Number		A	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

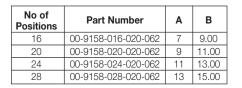


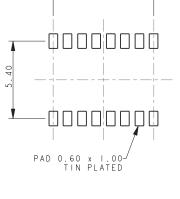
SMT PCB FOOTPRINT



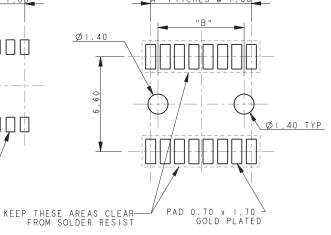










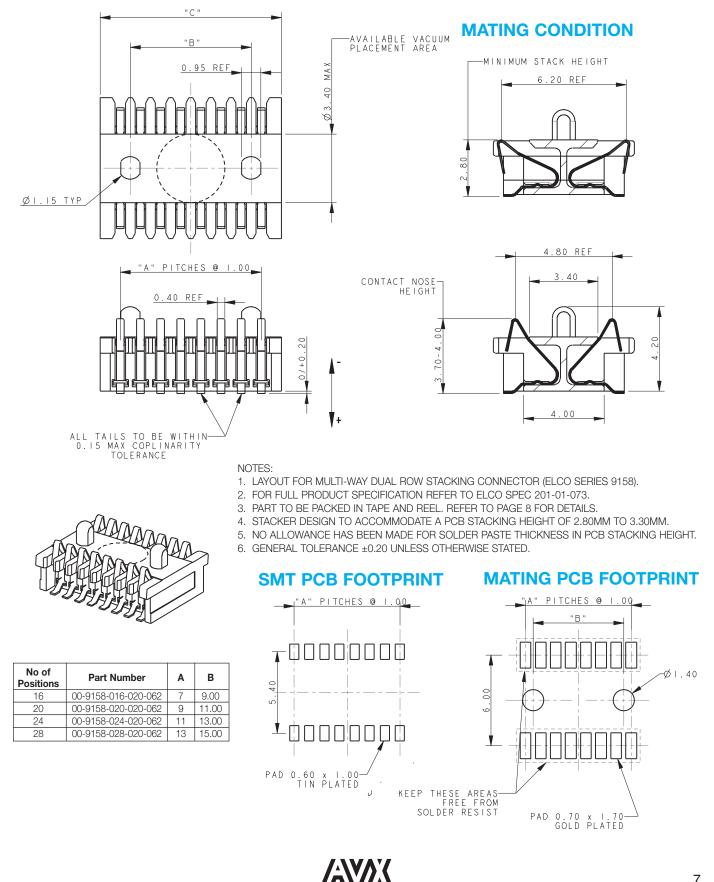




Dual Row Stacker: BTB 00-9158



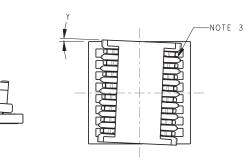
3.0MM DUAL ROW STACKER WITH BOSSES

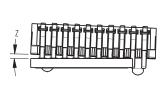




LIMITS TO PCB MISALIGNMENT

TWIST "Y"





END TILT "Z"

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

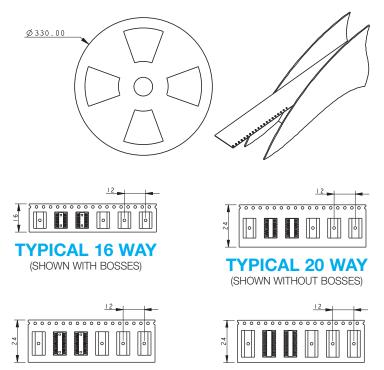
SIDE TILT "X"

NOTES:

- 1. PCB STACK HEIGHT (REF PAGE 1). 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



(SHOWN WITH BOSSES)

(SHOWN WITHOUT BOSSES)