9158 SOLO STACKER™

GENERAL DESCRIPTION

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

Suitable applications include:

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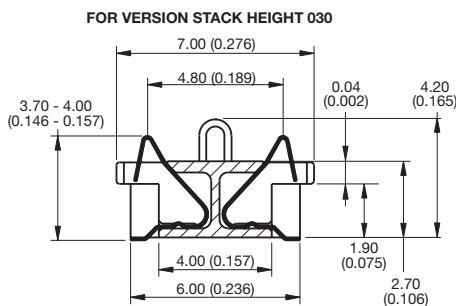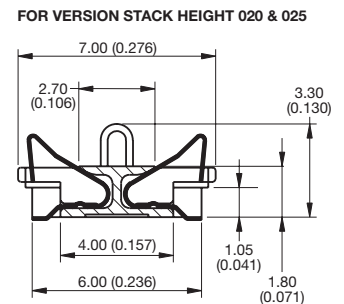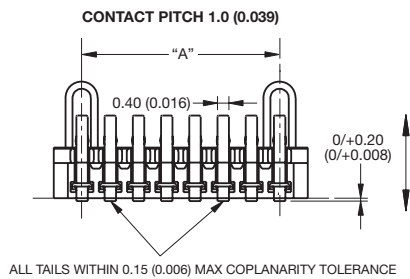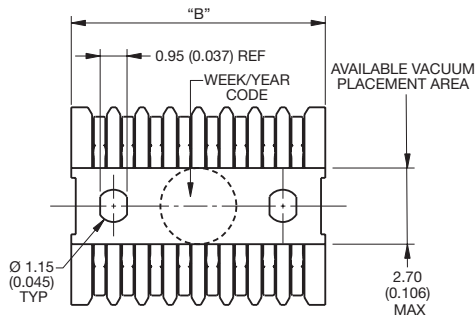- Industrial
- Security
- Handheld Scanner

KEY FEATURES AND BENEFITS

Single piece Connector – no mating half connector required to connect two boards together which means:

- 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.
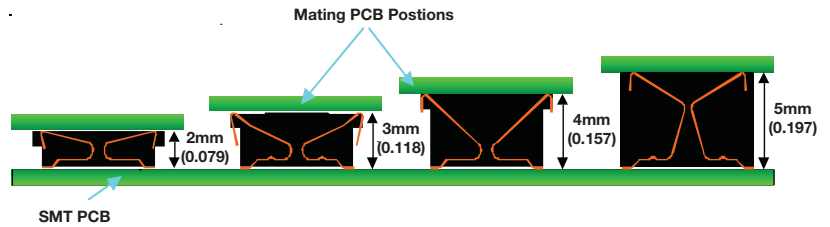- Helps reduce tolerance accumulation within system.

RoHS COMPLIANT

DRAWINGS AND DIMENSIONS

CONTACT PITCH 1.0 (0.039)

ALL TAILS WITHIN 0.15 (0.006) MAX COPLANARITY TOLERANCE

FOR VERSION STACK HEIGHT 020 & 025

FOR VERSION STACK HEIGHT 030

Number of Positions	Part Number	A	B
16	00-9158-016-XXX-XXX	7	9.00
20	00-9158-020-XXX-XXX	9	11.00
24	00-9158-024-XXX-XXX	11	13.00
28	00-9158-028-XXX-XXX	13	15.00

A = Number of contact pitches at 1mm
B = Connector Length

9158 SOLO STACKER™

SMT PCB Footprint

CONTACT PITCH 1.0 (0.039)

5.40 (0.213)

PAD 0.60 x 1.00 (0.024 x 0.039) TIN PLATED
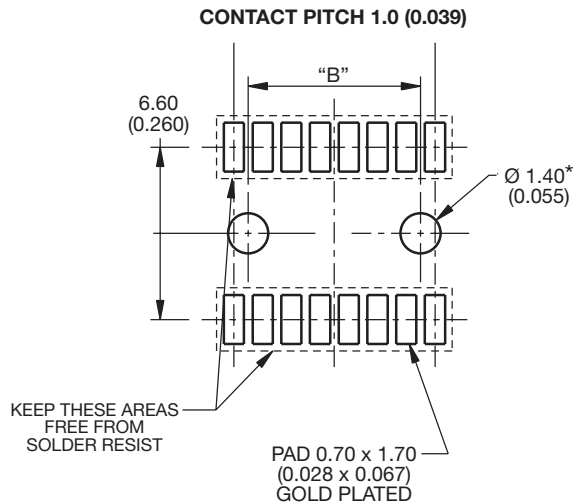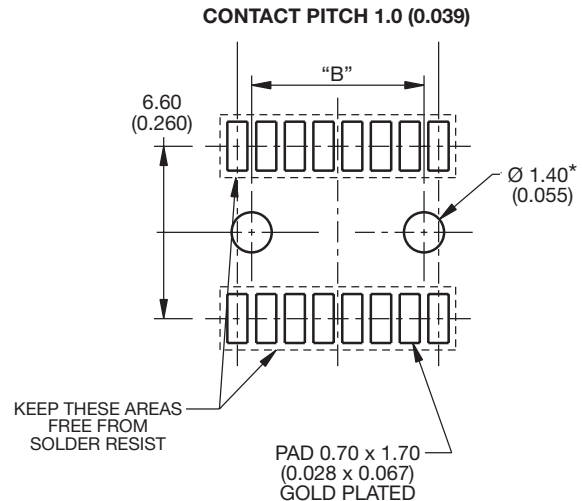
Mating PCB Postions

2mm (0.079)   3mm (0.118)   4mm (0.157)   5mm (0.197)

SMT PCB
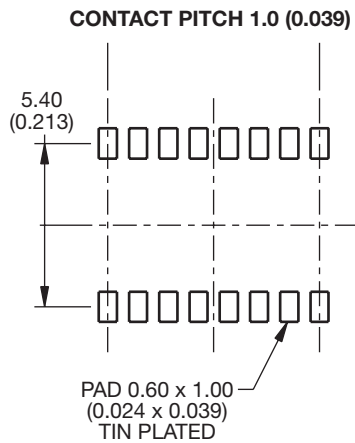
Mating Height	Standard Positions					Special Positions					
	16	20	24	28	32	4	18	28	30	34	40
2mm	X	X	X	X	X					X	
3mm	X	X	X	X	X						
4mm						X	X	X			X
5mm									X		

Other sizes available on request.

Mating PCB Footprint for version stack height 020 & 030

CONTACT PITCH 1.0 (0.039)

"B"

6.60 (0.260)

Ø 1.40* (0.055)

KEEP THESE AREAS FREE FROM SOLDER RESIST

PAD 0.70 x 1.70 (0.028 x 0.067) GOLD PLATED

* Used for Boss versions only.

Mating PCB Footprint for version stack height 025

CONTACT PITCH 1.0 (0.039)

"B"

6.60 (0.260)

Ø 1.40* (0.055)

KEEP THESE AREAS FREE FROM SOLDER RESIST

PAD 0.70 x 1.70 (0.028 x 0.067) GOLD PLATED

B	Dim
16	6.00 (0.236)
20	8.00 (0.315)
24	10.00 (0.394)
28	12.00 (0.472)

HOW TO ORDER

00   **9158**   **XXX**   **XXX**   **06**   **X**

Prefix
00 = Standard
58 = Special

Series

No of Ways
16 = 016
20 = 020
24 = 024
28 = 028

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