

FEATURES

- Standard stacking heights are 20, 22, 24, 26, 28 and 30mm(0.787", 0.866", 0.945", 1.024", 1.102", 1.181").
- 8903N-FS series will mate with 8913/8930E/8931E series.
- Six sizes : 40, 50, 60, 68, 80 and 100 pins.
- Reliable contact design
- RoHS compliance

SPECIFICATIONS

- Insulator : Glass-filled PBT(UL 94V-0)
Brown
- Contact : Phosphor Bronze
- Plating : Gold over Nickel
(Contact area)
Tin copper over Nickel
(Terminal area)
- Current rating : 0.5A per contact
- Contact resistance : 40mΩ max.
(Excluding conductor resistance)
- Dielectric withstanding voltage : 650V AC for 1 minute
- Insulation resistance : 1,000MΩ min. at 500V DC
- Operating temperature : -55°C to +85°C

ORDER CODE

8903N- FS - -F

- **F** : RoHS Compliance
- Stacked height
 - T : 20mm (0.787")
 - U : 22mm (0.866")
 - V : 24mm (0.945")
 - W : 26mm (1.024")
 - Y : 28mm (1.102")
 - Z : 30mm (1.181")
- Plating of contact area
 - Omit : Au 0.05μm (Standard)
 - D : Au 0.25μm (upon request)
- Contact tail style
 - FS : Flexible stacking
- Number of contacts
 - 040 : 40 pin
 - 050 : 50 pin
 - 060 : 60 pin
 - 068 : 68 pin
 - 080 : 80 pin
 - 100 : 100 pin
- Series name
 - 8903N : Receptacle

Stacked Mating Combinations (Stacked Height)

Unit: mm(inch)

Part Number	8903N- FS -T-F	8903N- FS -U-F	8903N- FS -V-F	8903N- FS -W-F	8903N- FS -Y-F	8903N- FS -Z-F
*18913- -178S -A-F	20(0.787)	22(0.866)	24(0.945)	26(1.024)	28(1.102)	30(1.181)
*18913- -178S -C-F	22(0.866)	24(0.945)	26(1.024)	28(1.102)	30(1.181)	32(1.260)
*18913- -178MS -A-F	20(0.787)	22(0.866)	24(0.945)	26(1.024)	28(1.102)	30(1.181)
8930E- -178MS-F	20(0.787)	22(0.866)	24(0.945)	26(1.024)	28(1.102)	30(1.181)
8931E- -178S-F	20(0.787)	22(0.866)	24(0.945)	26(1.024)	28(1.102)	30(1.181)

For other mating connectors, please see "8900 Series Mating Matrix".

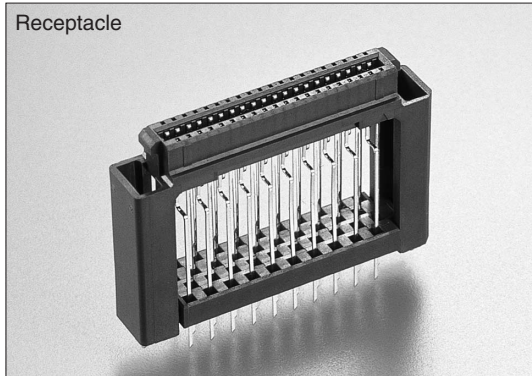
*1: 68 pin is not available

 Schareggstrasse 3, CH-5506 Mägenwil
 Tel. +41 62 896 00 48, Fax. +41 62 896 25 80
 info@admaterc.ch, www.admaterc.ch

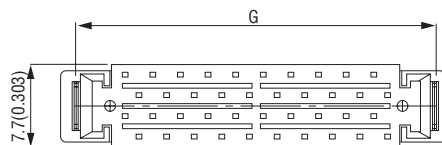
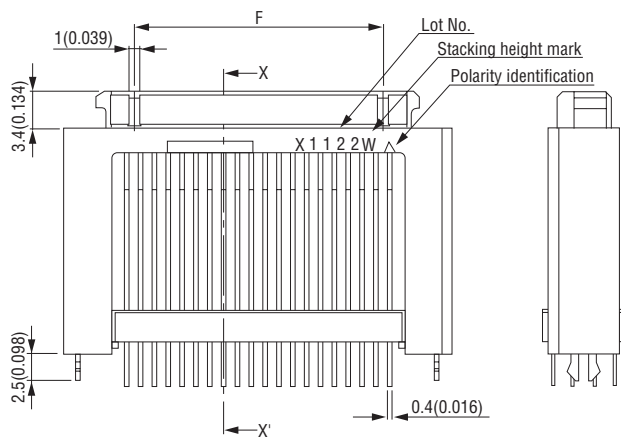
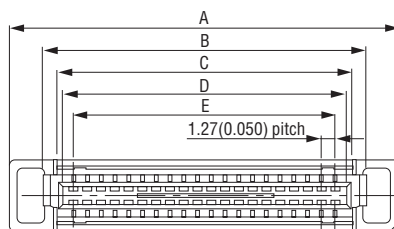
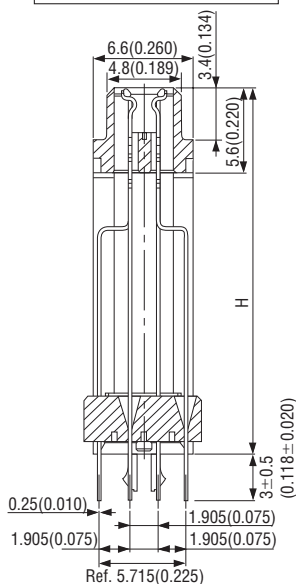
8903N-□□□FS□-□-F

Unit:mm(inch)

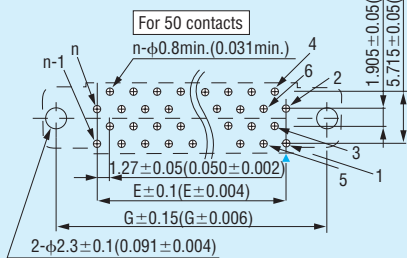
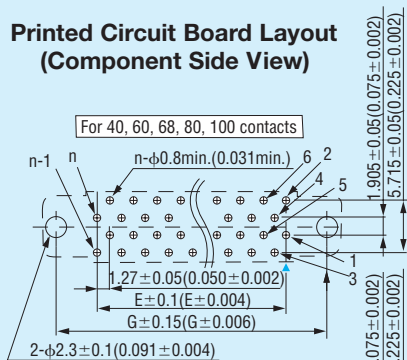
Receptacle



X-X' Cross Section



Printed Circuit Board Layout (Component Side View)



▼=Polarity identification
 Recommended PCB Thickness $t=1.6^{+0.2}_{-0.1}(0.063^{+0.008}_{-0.004})$
 *n is number of contacts.

Product Table / Connector Height

Part Number	H	*1Stacked height
8903N-□□□FS□-T-F	18.4 (0.724)	20 (0.787)
8903N-□□□FS□-U-F	20.4 (0.803)	22 (0.866)
8903N-□□□FS□-V-F	22.4 (0.882)	24 (0.945)
8903N-□□□FS□-W-F	24.4 (0.961)	26 (1.024)
8903N-□□□FS□-Y-F	26.4 (1.039)	28 (1.102)
8903N-□□□FS□-Z-F	28.4 (1.118)	30 (1.181)

*1: When mated with 8913-□□□-178S□-A-F, 8913-□□□-178MS□-A-F, 8930E-□□□-178MS-F or 8931E-□□□-178S-F

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	G
40	8903N-040FS□-□-F	35.90 (1.413)	29.73 (1.170)	27.23 (1.072)	26.13 (1.029)	24.13 (0.950)	22.86 (0.900)	33.02 (1.300)
50	8903N-050FS□-□-F	42.25 (1.663)	36.08 (1.420)	33.58 (1.322)	32.48 (1.279)	30.48 (1.200)	29.21 (1.150)	39.37 (1.550)
60	8903N-060FS□-□-F	48.60 (1.913)	42.43 (1.670)	39.93 (1.572)	38.83 (1.529)	36.83 (1.450)	35.56 (1.400)	45.72 (1.800)
68	8903N-068FS□-□-F	53.68 (2.113)	47.51 (1.870)	45.01 (1.772)	43.91 (1.729)	41.91 (1.650)	40.64 (1.600)	50.80 (2.000)
80	8903N-080FS□-□-F	61.30 (2.413)	55.13 (2.170)	52.63 (2.072)	51.53 (2.029)	49.53 (1.950)	48.26 (1.900)	58.42 (2.300)
100	8903N-100FS□-□-F	74.00 (2.913)	67.83 (2.670)	65.33 (2.572)	64.23 (2.529)	62.23 (2.450)	60.96 (2.400)	71.12 (2.800)

Specifications and dimensions are subject to change without notice.