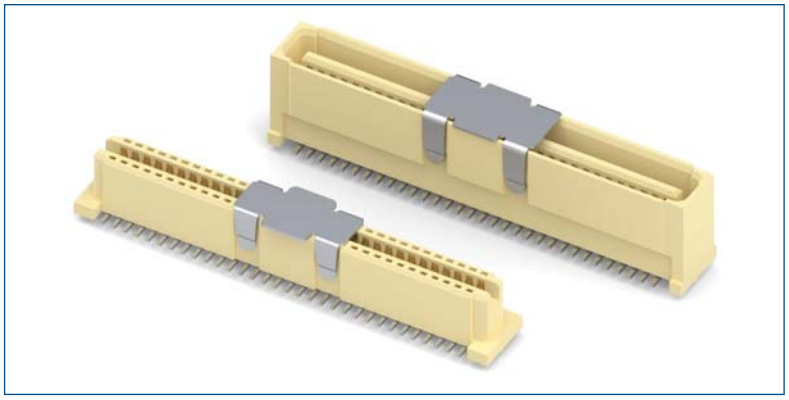
MAXIMUM SOLUTIONS

Mill-Max Now Offers 891 & 893 1 mm Pitch Mezzanine Connectors



Mill-Max introduces 64 position, 1 mm pitch mezzanine connectors for parallel board stacking interconnections. The connectors meet EIA-700 AAAB specifications for IEEE 1386 applications.

IEEE 1386 is the industry standard for adding general functionality to motherboards and these mezzanine connectors are the perfect solution for connecting the common mezzanine card (CMC.) Some of the environments where this standard can be found are on VME, VME64 & VME64X boards, CompactPCI boards, Multibus I & II boards, desktop & portable computers and servers. They can also be used as modular connectors for front panel and backplane I/O cards.

The 891-10-064-30-120000 male and 893-43-064-30-420000 female are surface mount connectors that have a mated height of 10 mm. The 1 mm pitch provides high density packaging crucial for saving board real estate. Locating posts are incorporated into the housing to promote accurate placement on the P.C.B.

The connectors are RoHS compliant and suitable for "lead free" reflow soldering processes. Packaging is tape & reel, per EIA-783 (56 mm wide; 16 mm pitch.)

Both the 891 & 893 connectors feature 30u" gold plated contacts, providing optimum conductivity and effective wear resistance, and tin plated solder terminals for ease of soldering. The insulator housings are made of high temperature glass filled LCP, rated UL 94 V-0.

For more information, please visit: www.mill-max.com/PR623.

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MILL-MAX®

SERIES 891 & 893 • 1mm GRID SURFACE MOUNT • MALE AND FEMALE CONNECTORS

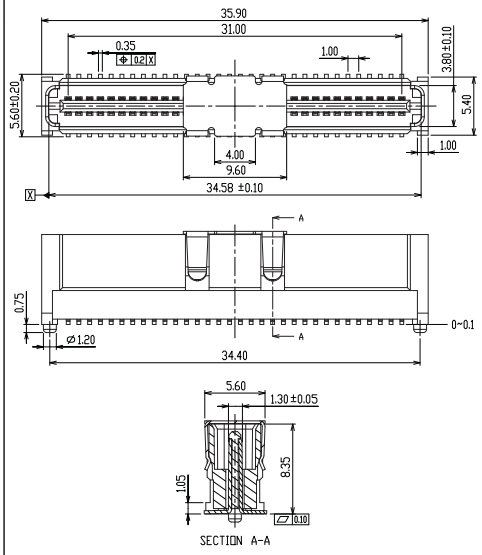


FIG. 1

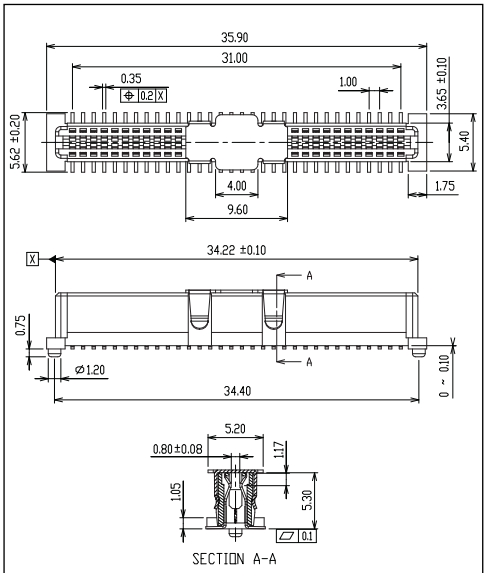
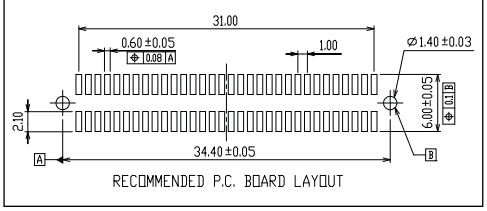
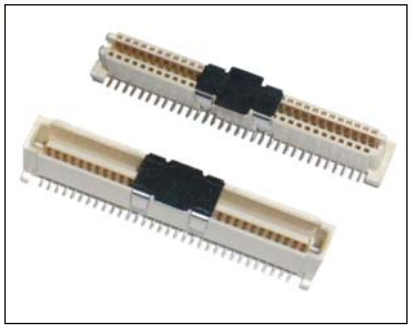


FIG. 2



- 64 Position Mezzanine Connectors for board stacking
- 1 mm Centerline high density packaging
- Mated connector board stacking height of 10 mm
- Conforms to EIA-700 AAAB for IEEE 1386 applictions
- Tape & Reel packaged per EIA-783 (56 mm wide; 16 mm pitch)
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 891...120**	**1mm Surface Mount Male Connector**
	891-10-064-30-120000 **Tape and Reel Packaging:** 400 Parts per 13" reel	
FIG. 2	**Series 893...420**	**1mm Surface Mount Female Connector**
	893-43-064-30-420000 **Tape and Reel Packaging:** 600 Parts per 13" reel	

Technical Specifications

RoHS-2 2011/65/EU

Materials:
Terminals and Contacts: Phosphor Bronze
Plating: Contact area - 30 µ" Gold over Nickel
Solder Terminals - 75 µ" Tin over Nickel
Vacuum Cap: Stainless Steel
Insulator Material: High temperature glass filled LCP, rated UL 94V-0

Ratings:
Current: (30° C Temperature Rise): 0.5 A max., all circuits wired in series (1.0A max., five adjacent circuits wired in series)
Voltage: 250V AC (RMS) (contact to contact)
Operating Temperature Range: -55° C - +85° C

Electrical:
Contact resistance: 30mΩ max.
Insulation resistance: 1,000 MΩ min.
Dielectric Withstanding Voltage: 250V AC for one minute @ sea level

Mechanical:
Vibration: No discontinuity > 1 ms per MIL-STD 202, Method 201
Physical Shock: No discontinuity > 1 µs per EIA 364-27 Test Condition H
Durability: 100 cycles min. per EIA 364-09
Mating Force: 60 g/terminal max. per EIA 364-13
Separation Force: 23 g/terminal min. per EIA 364-13
Contact Retention Force: .4Kg min. per EIA 364-35

Environmental:
Thermal Shock: Per EIA 364-32, Test Condition I
Humidity: Test conditions - Ambient temp. 40±2°C; Relative humidity: 90 - 95%; Duration: 96 Hrs.
Post Humidity Inspection - 1. No damage
2. Contact resistance change < 15 mΩ
3. Insulation Resistance: 100 MΩ min.
Solderability: Per EIA 364-52 Category 2

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