

# DIN 41612 Connectors

## M41 Series



### SPECIFICATIONS

#### Material:

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94-0

Contacts: Male-Brass, Female-Phosphor Bronze

#### Plating:

Gold to MIL-G-45204, Type II, Grade C on contact area over 50  $\mu$ m. nickel underplate to QQ-N-290, Class 2, Grade C

#### Electrical:

Operation voltage: 600 VDC max

Current rating: 1.5 Amps max

Contact resistance: 20 m $\Omega$  max

Insulation resistance: 5000 M $\Omega$  min at 1000 VDC between adjacent contacts (75° and 50% R.H.)

Dielectric withstanding voltage: 1000 VAC min RMS (sea level)

#### Mechanical:

Insertion force: 3 ozs. max when mated with .025" sq. pin

Withdrawal force: 2 ozs. min when mated with .025" sq. pin

#### Environmental:

Operating temperature: -55°C to + 125°C

#### PACKAGING:

Anti-static plastic trays available

#### APPROVALS AND CERTIFICATIONS:

Recognized under the component program of Underwriters Laboratories, Inc. No. E163232



#### PART NUMBER LEGEND

#### M41X-XXXX-XXX

##### SOLDER TAIL LENGTH

- 1 = Straight PCB mount
- 2 = Wire wrap .511" Solder tail (straight female only)

##### BODY STYLE

- 01 = Short body, 3 rows A & C Loaded
- 02 = Short body, 3 rows A, B & C Loaded
- 03 = Long body, 2 rows A & B Loaded
- 04 = Long body, 3 rows A & C Loaded
- 05 = Long body, 3 rows A, B & C Loaded
- 06 = 01 w/ board locks
- 07 = 02 w/ board locks
- 08 = 03 w/ board locks
- 09 = 04 w/ board locks
- 10 = 05 w/ board locks

##### NUMBER OF CONTACTS

16, 32, 48, 64, 96

##### MOUNTING ANGLE

- S = Straight, PCB mount
- R = Right Angle, PCB mount

##### GENDER

- M = Male, pins
- F = Female, socket

##### PLATING

- 8 = 30  $\mu$ m Select Gold nominal
- F = 15  $\mu$ m Select Gold nominal
- T = 8  $\mu$ m Select Gold nominal



#### North and South America:

##### Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA  
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

#### Europe:

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Email: info@methode.ie • Web: ireland.methode.com/main.html

#### Far East:

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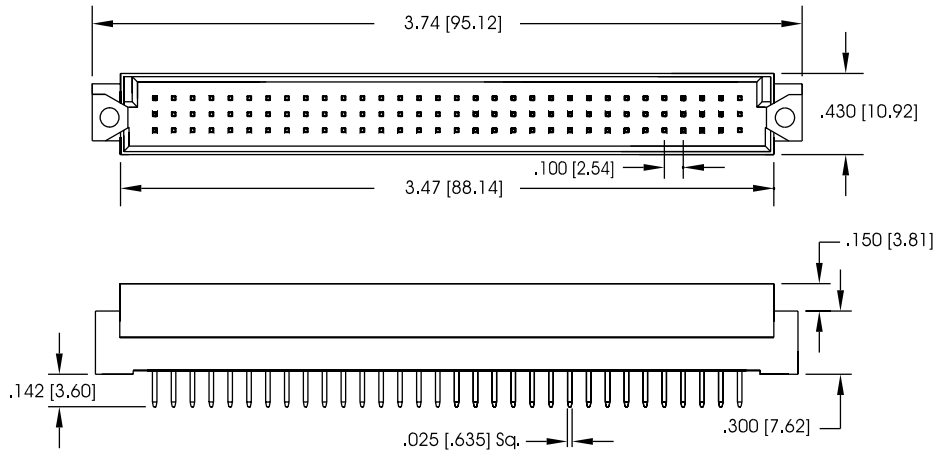
1 Tuas Lane, Jurong Town • Singapore 638610  
65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

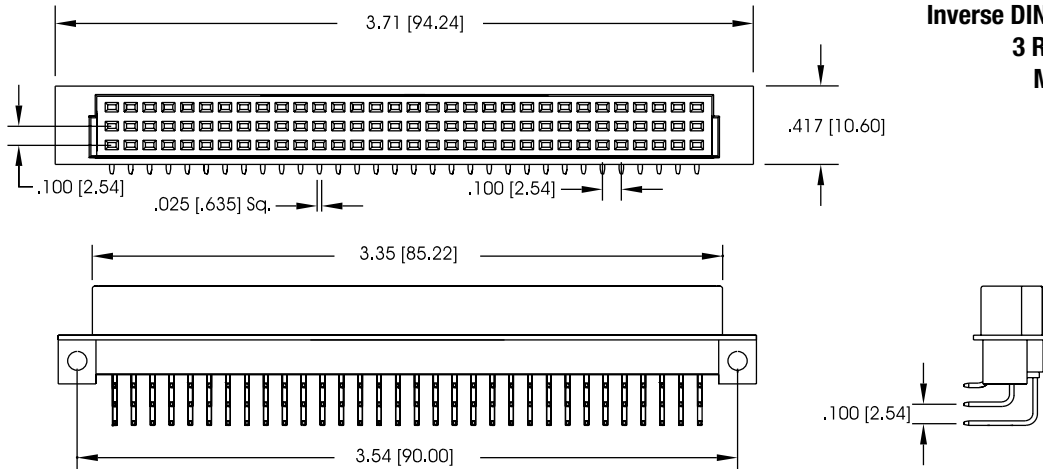
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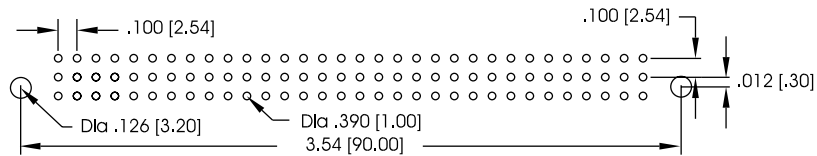
**Inverse DIN Type R Male  
3 Row Straight  
M41X-MSXX-051**



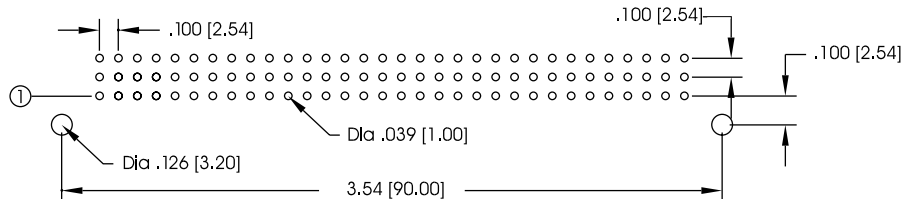
**Inverse DIN Type R Female  
3 Row Right Angle  
M41X-FRXX-051**



**PC Board Layout - Male**



**PC Board Layout - Female**



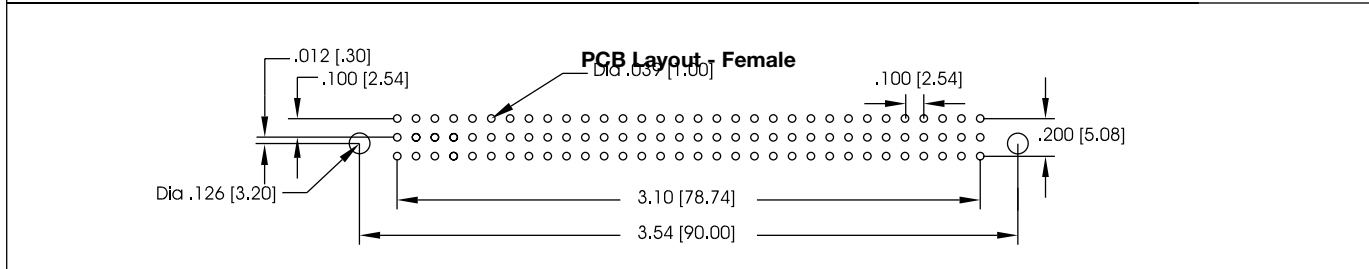
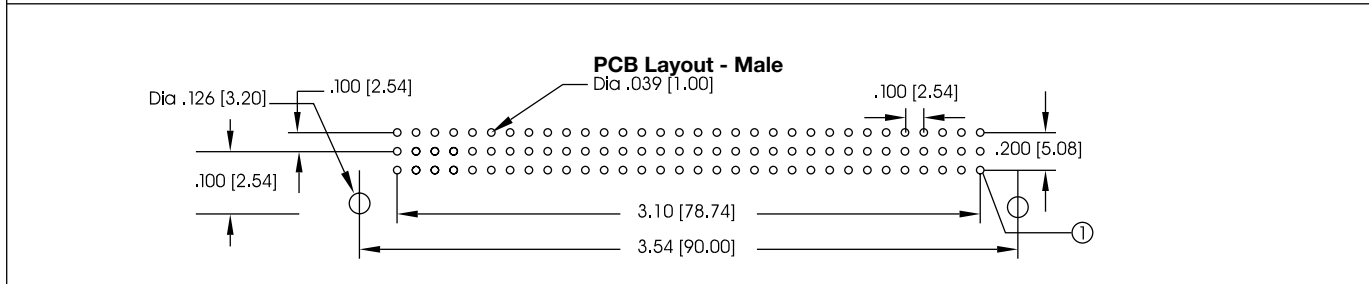
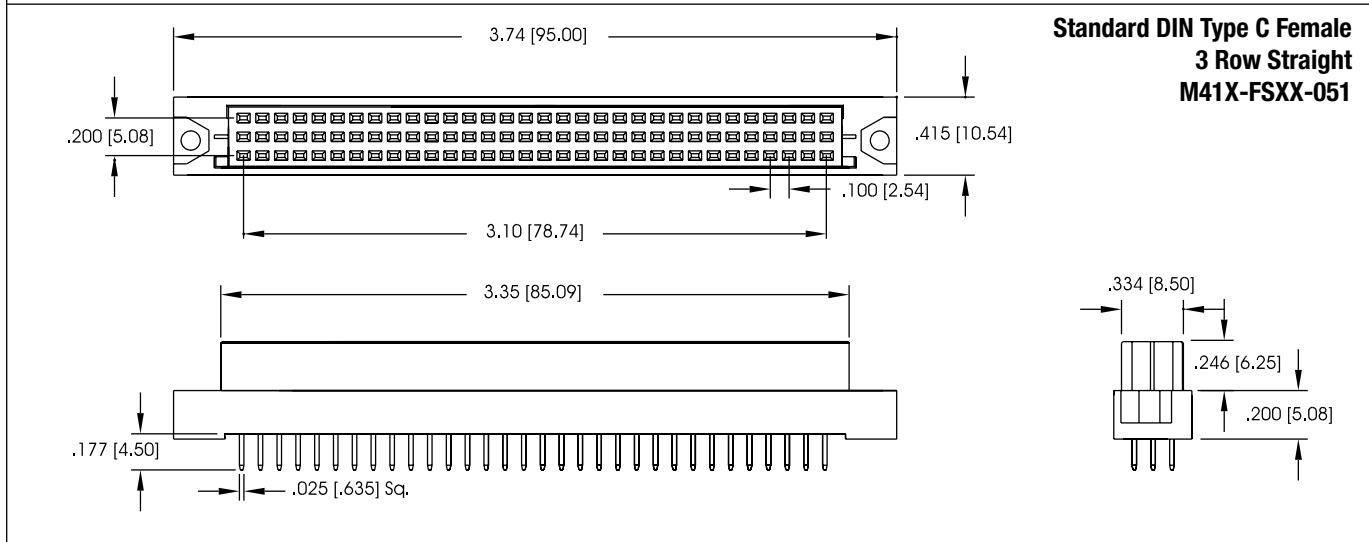
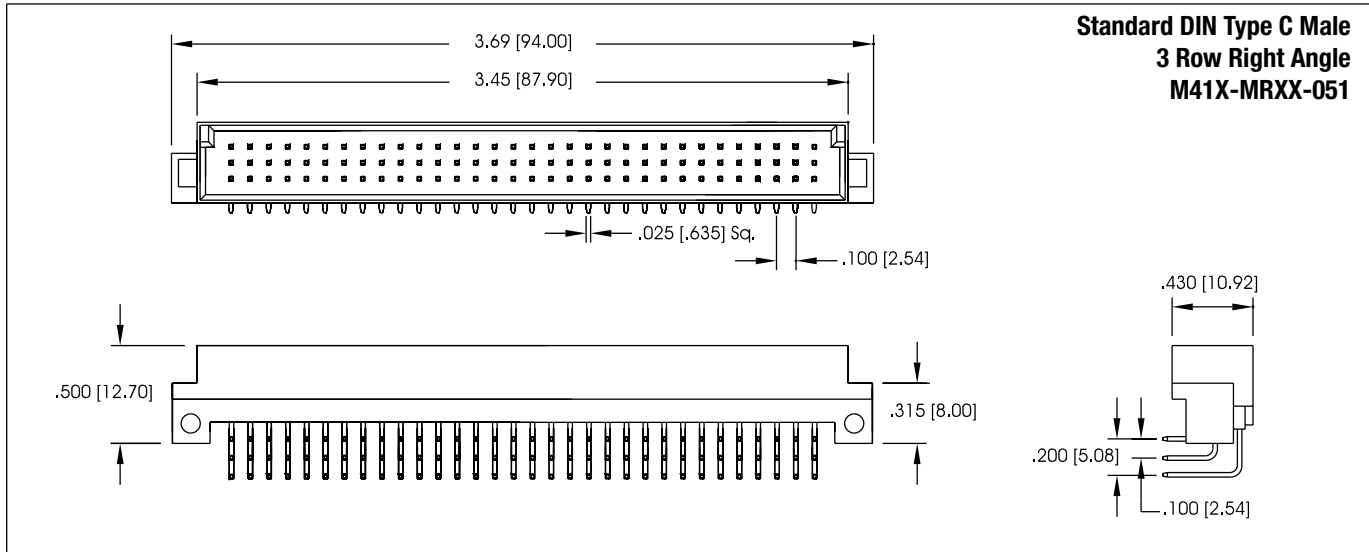
**North and South America:**  
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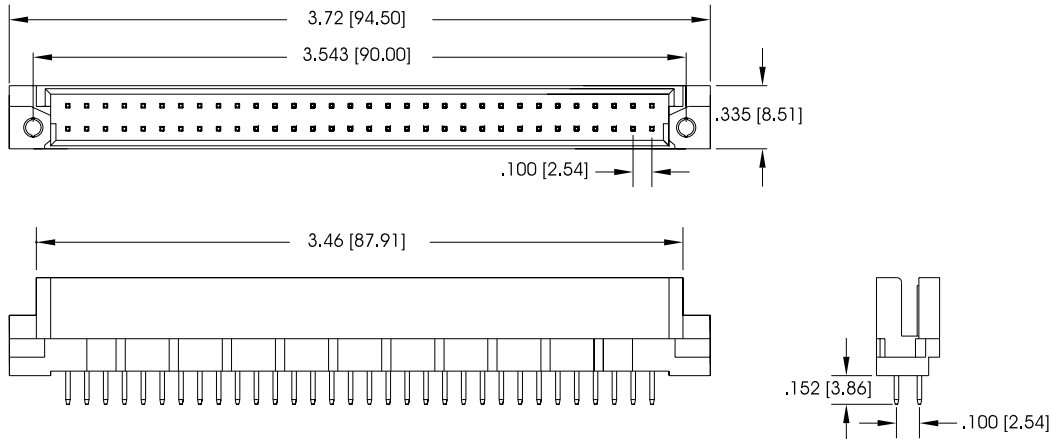
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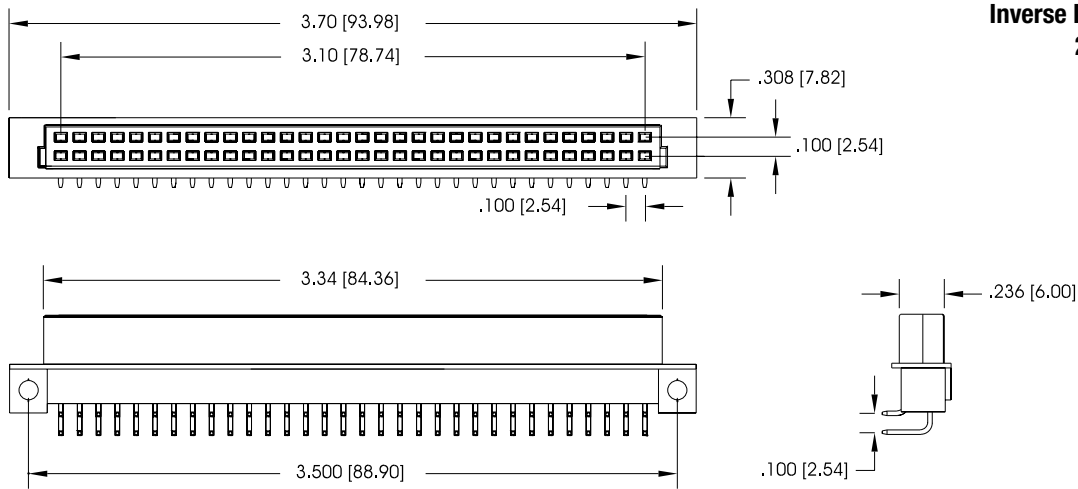
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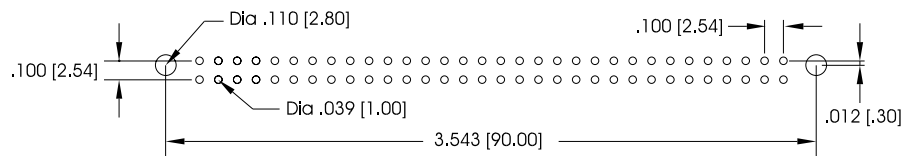
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2 Row Straight  
M41X-MSXX-031**



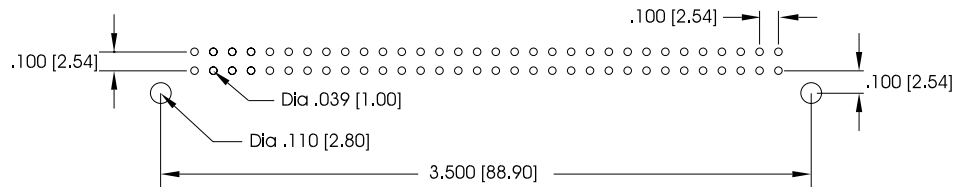
**Inverse DIN Type B Female  
2 Row Right Angle  
M41X-FRXX-031**



**PC Board Layout - Male**



**PC Board Layout - Female**

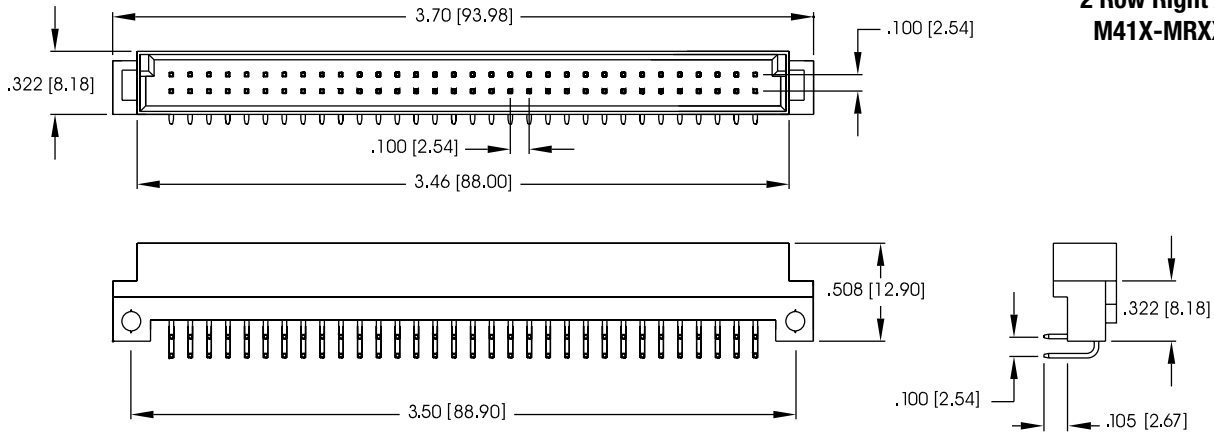


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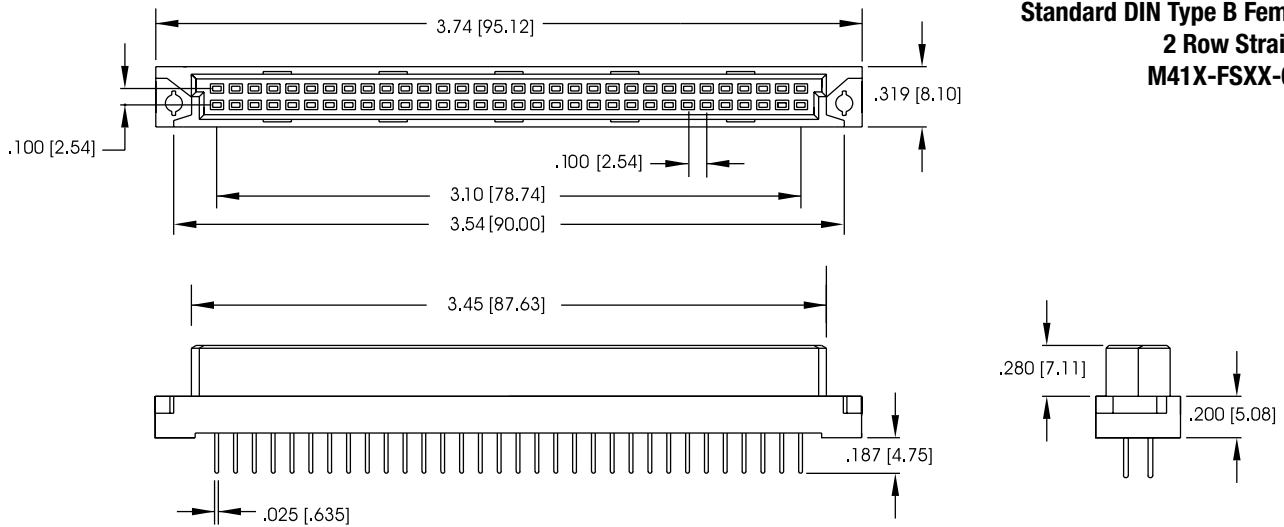
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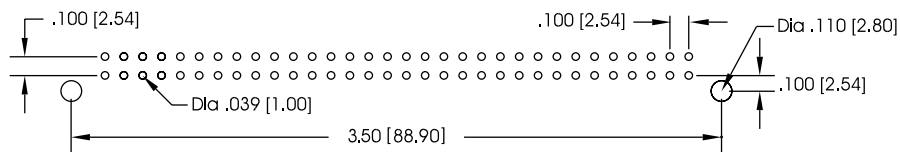
**Standard DIN Type B Male  
2 Row Right Angle  
M41X-MRXX-031**



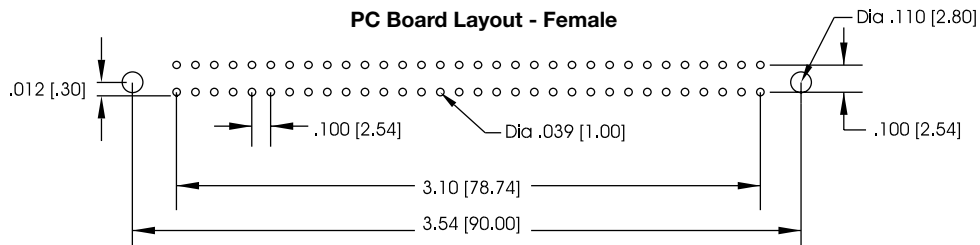
**Standard DIN Type B Female  
2 Row Straight  
M41X-FSXX-031**



**PC Board Layout - Male**



**PC Board Layout - Female**



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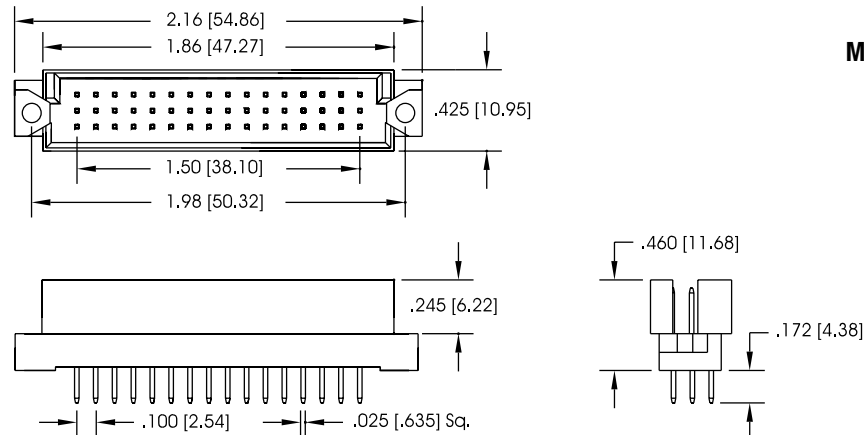
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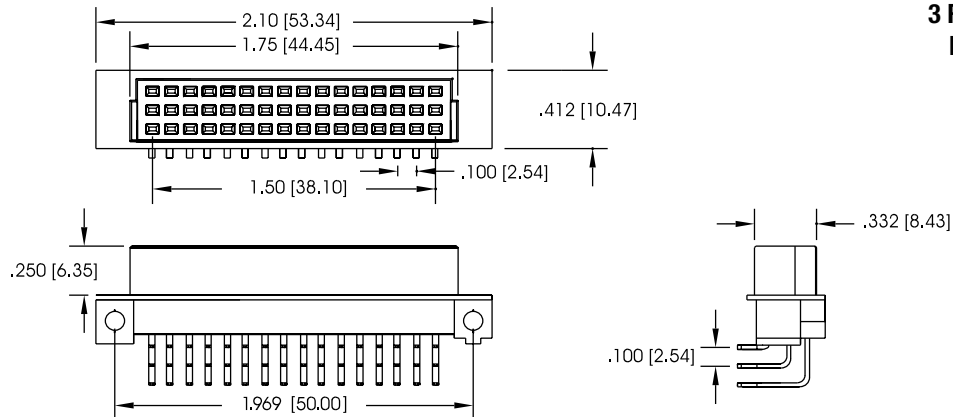
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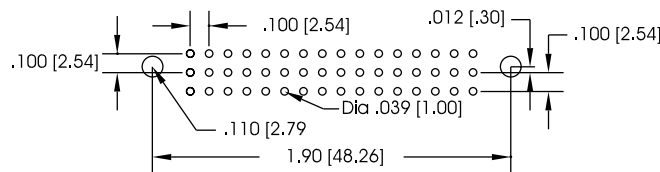
**Inverse DIN Type 1/2 R Male  
3 Row Straight  
M41X-MSXX-021**



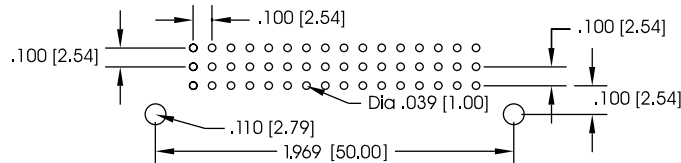
**Inverse DIN Type 1/2 R Female  
3 Row Right Angle  
M41X-FRXX-021**



**PC Board Layout - Male**

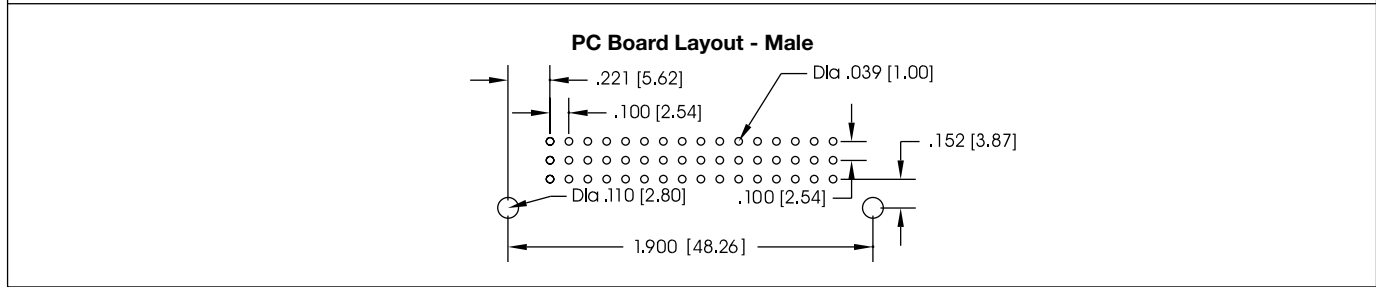
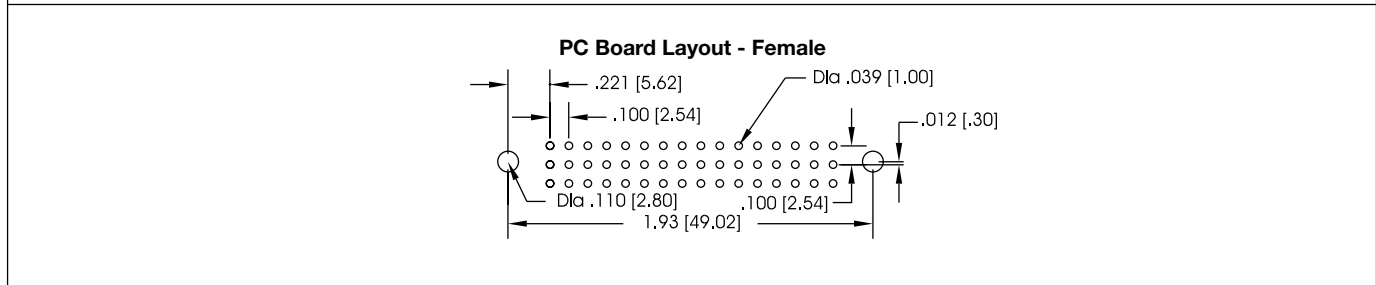
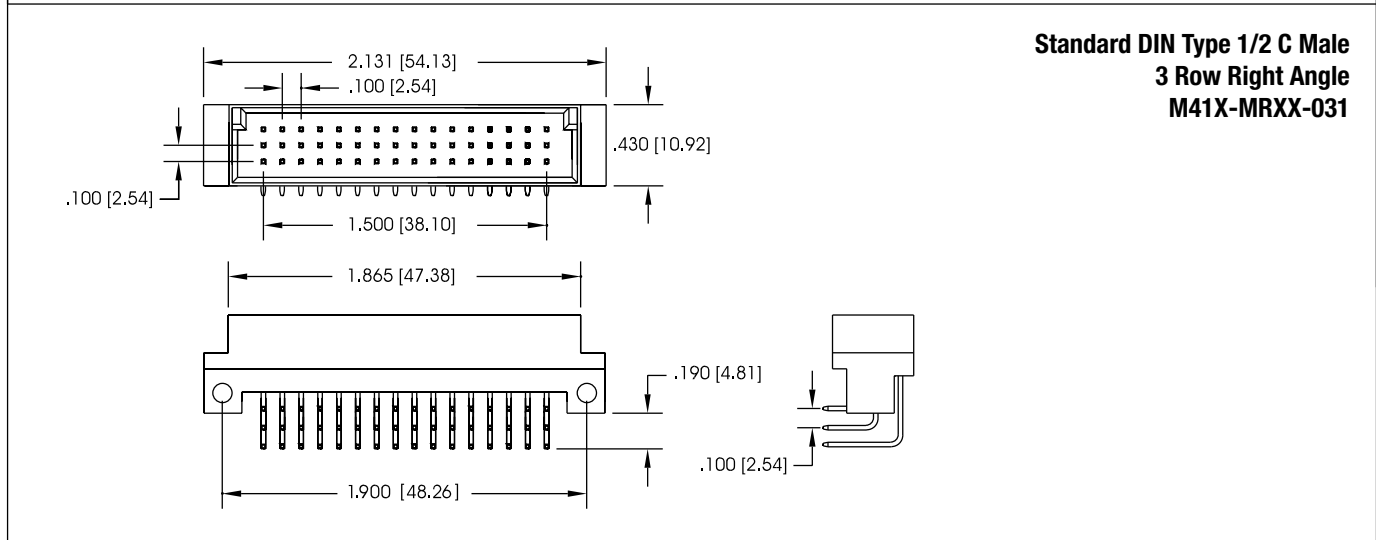
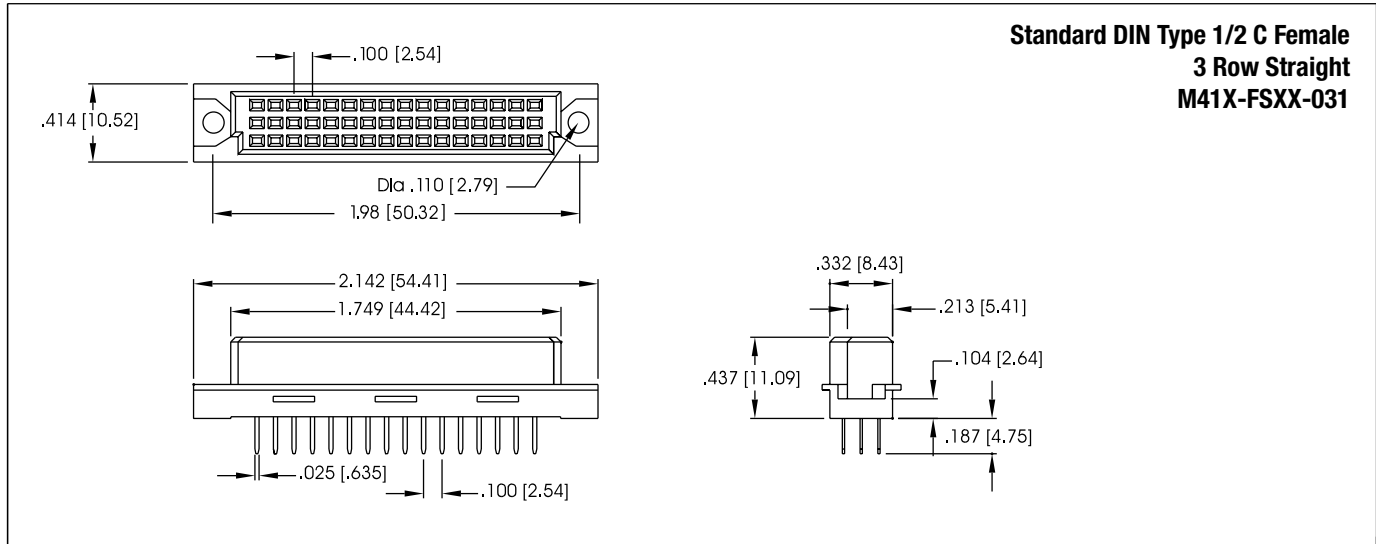


**PC Board Layout - Female**



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