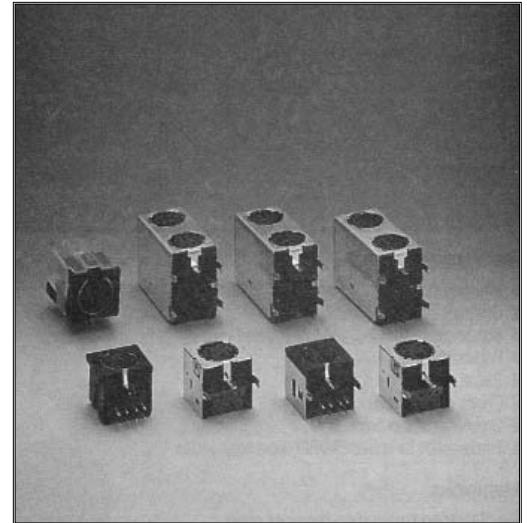


# Mini DIN Connectors

M MDF Series - Circular Non-Shielded, Shielded, and Fully Shielded	9-2
M MDS Series - Circular, Shielded and Fully Shielded with Switch	9-4
M MDV Series - Circular Connectors Vertical Type, 3 to 8 Contacts	9-5
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M MDM Series - Shielded Male Plug	9-7
M MDFS Series - Stacked, 4 Positions, Top and Bottom	9-8
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M MDFS Series - Stacked, 8 Positions, Top and Bottom	9-10



## MINI-DIN CONNECTORS

MAXCONN - [\(Back to Table of Contents\)](#)

# MMDF Series Circular Non-Shielded, Shielded, and Fully Shielded

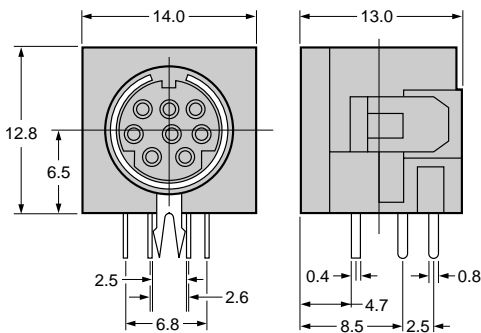


### FEATURES

- Miniature size
- One shell size, 3 to 9 positions
- Non-shielded, shielded, and fully shielded
- Polarization key
- Switch option (consult factory)
- Choice of colors: black, platinum\* pearl white\*
- Grounding tabs or brackets
- Ferrite option for added EMI/RFI noise suppression

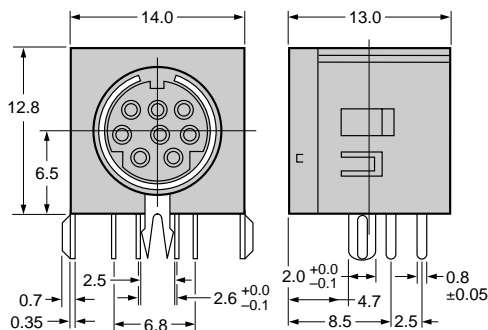
### DIMENSIONS

#### Non-Shielded (grounding brackets only)



### DIMENSIONS

#### Shielded Four Sides(grounding brackets only)



### Performance Specifications

#### Materials and Finish

**Shield (outer):** Steel, nickel finish

**Shield (inner):** Phosphor bronze, nickel finish

**Insert:** PBT thermoplastic, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:** Standard 50 microinch silver over 100 microinch copper

Optional: 10, 15, or 30 microinch gold over 50 microinch nickel

**Grounding Bracket/Tab:** Phosphor bronze, nickel finish

#### Mechanical Characteristics

**Contact Separation Force:** 1.35 ounces, minimum

**Contact Engagement Force:** 1.60 ounces, maximum

#### Electrical Characteristics

**Contact Current Rating:** 1 amp, 100 Vac, 2 amp 12 Vdc

**Contact Resistance:** 30 milliohms maximum

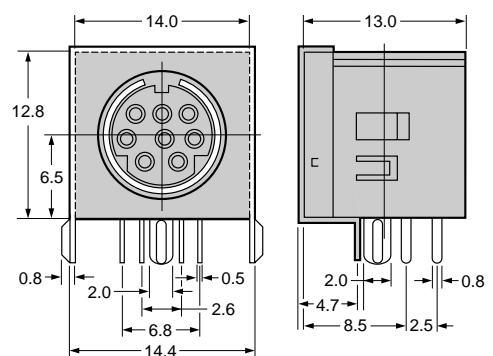
**Dielectric Withstanding Voltage:** 250 Vdc minimum for one minute, 5000 megohms min.

**Insulation Resistance:** 50 megohms minimum

**Temperature Rating:** -55° C to + 125° C

### DIMENSIONS

#### Fully Shielded Five Sides(grounding tab only)



### HOW TO ORDER

**MMDF - 8 S N B - F 1**

**Series**

**Number of Positions**

3, 4, 5, 6,  
7, 8, 9\*\*

**S** — Shielded (4 sides)

**FS** — Fully Shielded (5 sides)

**N** — Grounding Bracket

**0** — Grounding Tab

**Plating**

1 — 50 microinch Silver  
2 — 10 microinch Gold  
3 — 15 microinch Gold  
4 — 30 microinch Gold

**Ferrite**

Blank — Without ferrite  
F — With ferrite

**Color**

B — Black (Standard)  
A — Platinum\* (Apple Computer)  
I — Pearl white\* (IBM)

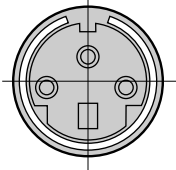
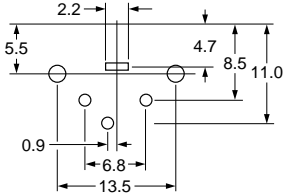
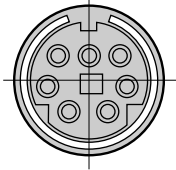
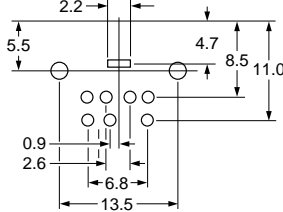
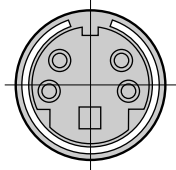
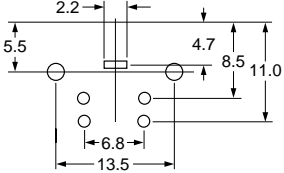
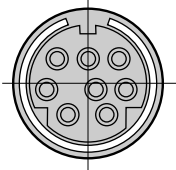
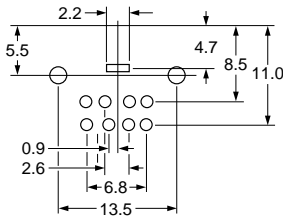
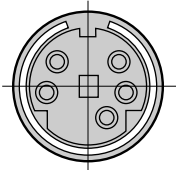
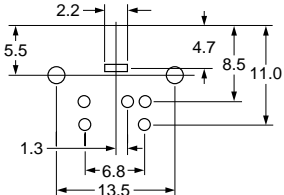
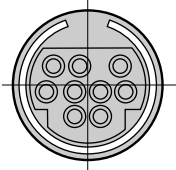
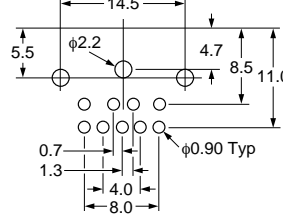
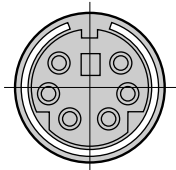
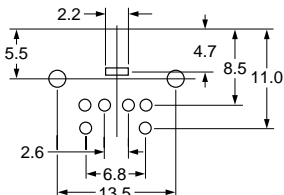
\* 5,000 piece minimum order.

\*\* 9 position available fully shielded with grounding tab only.

# MINI-DIN CONNECTORS

M MDF Series  
Circular Non-Shielded, Shielded,  
and Fully Shielded

## Dimensions

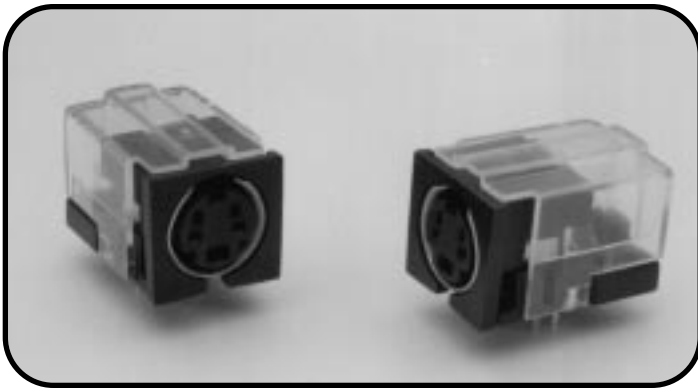
Arrangement of Contacts	Number of Contacts	PCB Layout	Arrangement of Contacts	Number of Contacts	PCB Layout
	3			7	
	4			8	
	5			9*	
	6				

\* 9 position available fully shielded with grounding tab only.

[MAXCONN - \(Back to Table of Contents\)](#)

# MINI-DIN CONNECTORS

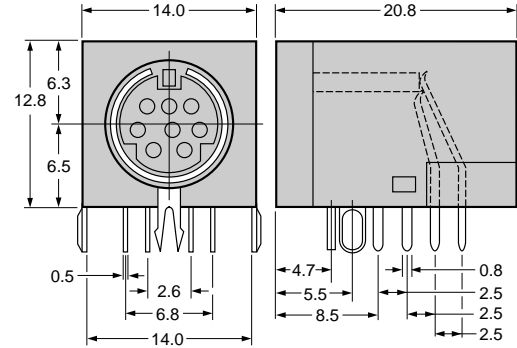
## MMDS Series Circular, Shielded and Fully Shielded with Switch



MAXCONN - [\(Back to Table of Contents\)](#)

Performance Specifications  
Same as MMDF Series

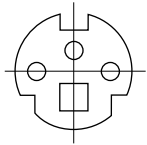
### DIMENSIONS



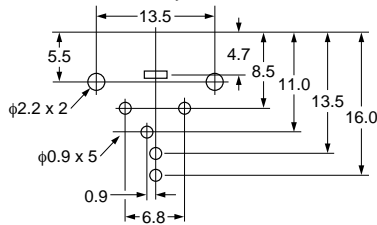
Arrangement  
of Contacts

Number  
of Contacts

PCB  
Layout



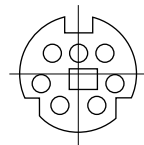
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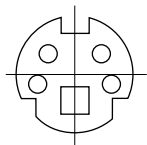
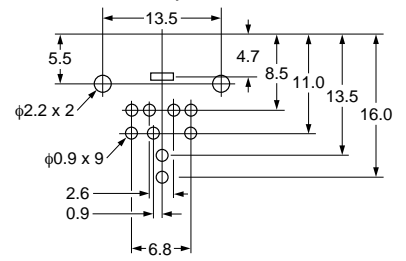
Arrangement  
of Contacts

Number  
of Contacts

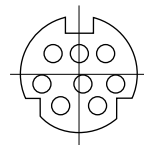
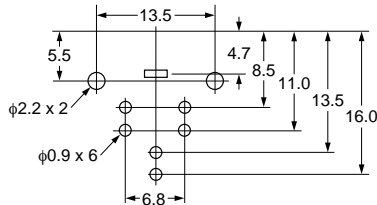
PCB  
Layout



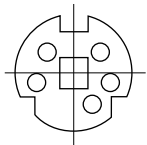
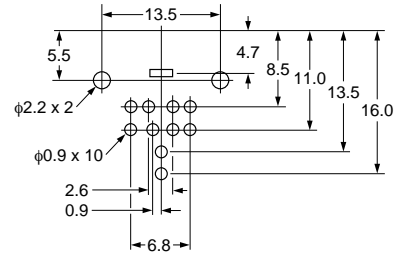
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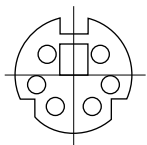
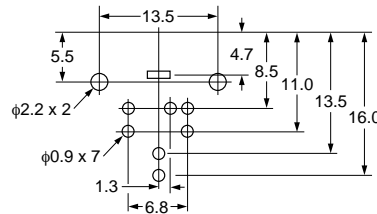
4



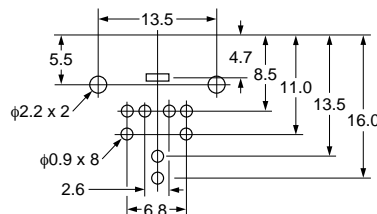
8



5



6



### HOW TO ORDER

**MMDS - 8 S B - 1**

Series

Number of  
Positions

3, 4, 5,  
6, 7, 8

S — Shielded

F — Fully Shielded

Plating

1 — 50 microinch Silver

2 — 10 microinch Gold

3 — 15 microinch gold

4 — 30 microinch gold

Color

B — Black (Standard)

A — Platinum\* (Apple Computer)

I — Pearl white\* (IBM)

\* 5,000 piece minimum order

\*\* 9 position not available

## MINI-DIN CONNECTORS

# MMDFS Series

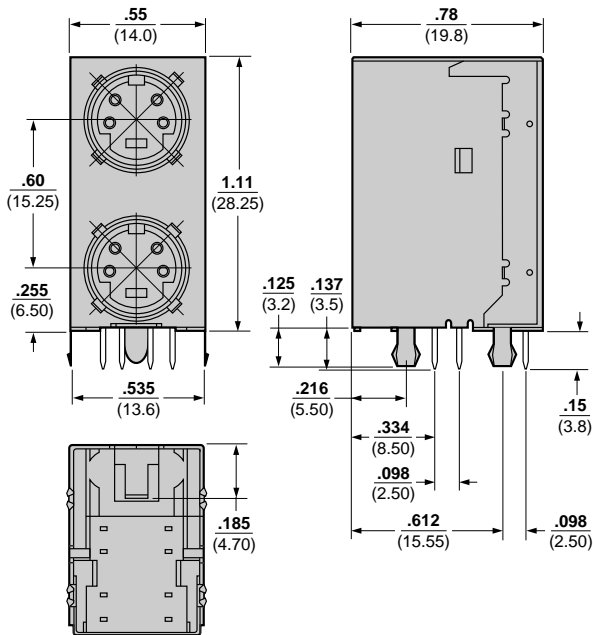
## Stacked, 4 Positions, Top and Bottom



### FEATURES

- Vertical dual-port construction allows for space saving on the panel and printed circuit board
- 4, 6, 8-positions available

### DIMENSIONS



## MAXCONN - (Back to Table of Contents)

### Performance Specifications

#### Materials and Finish

**Shield (outer):** Steel, nickel finish

**Shield (inner):** Phosphor bronze, nickel finish

**Insert:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass 0.020 (0.508mm) diameter phosphor bronze

**Contact Finish:** 10 microinch gold over 50 microinch nickel

#### Mechanical Characteristics

**Contact Separation Force:** 1.35 ounces, minimum per contact

**Contact Engagement Force:** 1.60 ounces, maximum per contact

#### Electrical Characteristics

**Contact Current Rating:** 1 amp

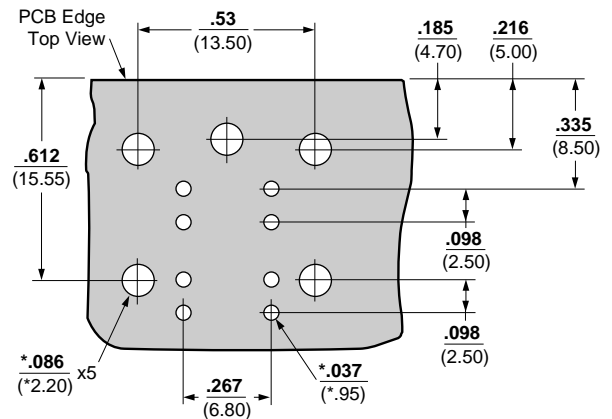
**Contact Resistance:** 30 milliohms maximum

**Dielectric Withstanding Voltage:** 500 Vac

**Insulation Resistance:** 1000 megohms minimum

**Temperature Rating:** -25° C to +85° C

### PCB LAYOUT



### HOW TO ORDER

**MMDFS - 4 / 4 S O B - 2**

**Series**

**Number of Positions – Top**  
4, 6, 8

**Number of Positions – Bottom**  
4, 6, 8

**Shielded**

**O — Grounding Tab**

**Plating**

2 — 10 microinch gold

**Color**

B — Black

# MINI-DIN CONNECTORS

## MMDFS Series

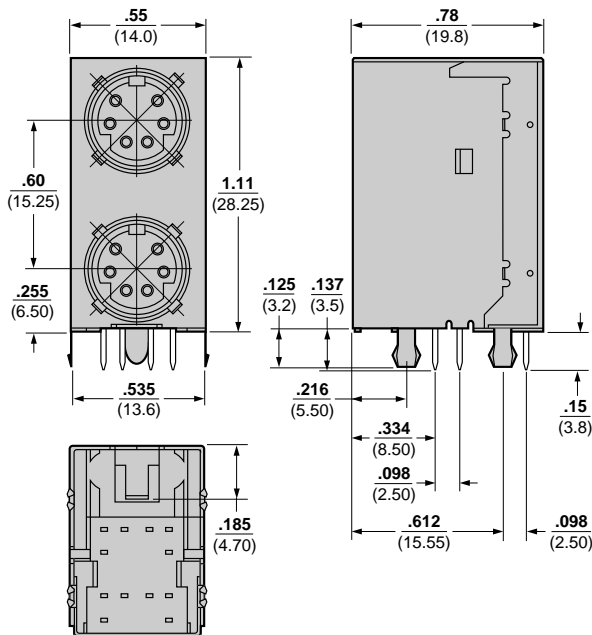
### Stacked, 6 Positions, Top and Bottom



#### FEATURES

- Vertical dual-port construction allows for space saving on the panel and printed circuit board
- 4, 6, 8-positions available

#### DIMENSIONS



## MAXCONN - [\(Back to Table of Contents\)](#)

### Performance Specifications

#### Materials and Finish

**Shield (outer):** Steel, nickel finish

**Shield (inner):** Phosphor bronze, nickel finish

**Insert:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass 0.020 (0.508mm) diameter phosphor bronze

**Contact Finish:** 10 microinch gold over 50 microinch nickel

#### Mechanical Characteristics

**Contact Separation Force:** 1.35 ounces, minimum per contact

**Contact Engagement Force:** 1.60 ounces, maximum per contact

#### Electrical Characteristics

**Contact Current Rating:** 1 amp

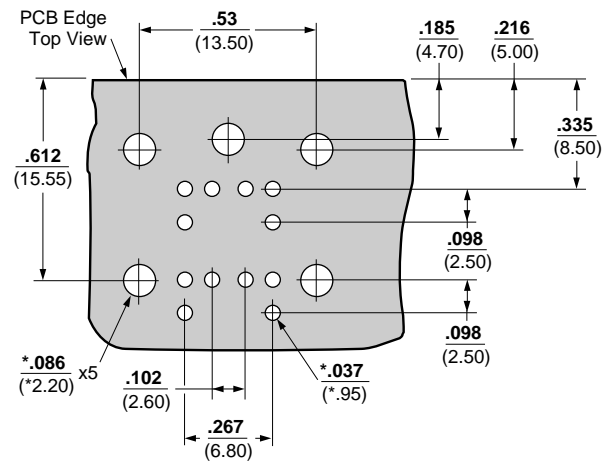
**Contact Resistance:** 30 milliohms maximum

**Dielectric Withstanding Voltage:** 500 Vac

**Insulation Resistance:** 1000 megohms minimum

**Temperature Rating:** -25° C to + 85° C

#### PCB LAYOUT



#### HOW TO ORDER

**MMDFS - 6 / 6 S O B - 2**

**Series**

**Number of Positions - Top**  
4, 6, 8

**Number of Positions - Bottom**  
4, 6, 8

**Shielded**

**O — Grounding Tab**

**Plating**

2 — 10 microinch gold

**Color**

B — Black

## MINI-DIN CONNECTORS

# MMDFS Series

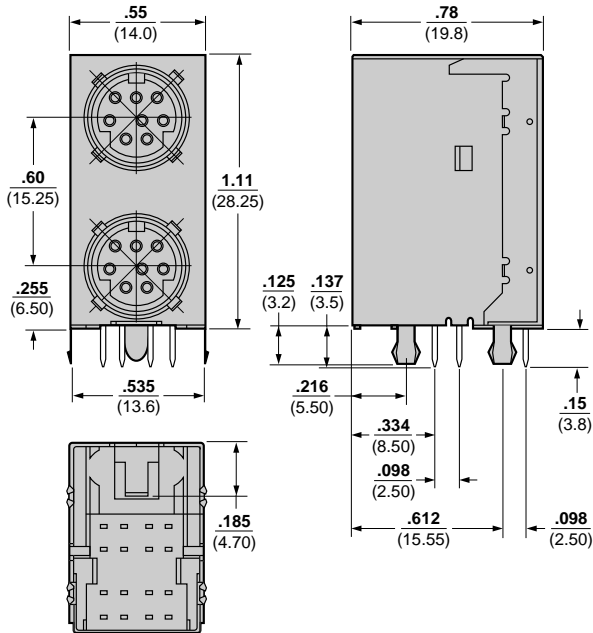
## Stacked, 8 Positions, Top and Bottom



### FEATURES

- Vertical dual-port construction allows for space saving on the panel and printed circuit board
- 4, 6, 8-positions available

### DIMENSIONS



## MAXCONN - [\(Back to Table of Contents\)](#)

### Performance Specifications

#### Materials and Finish

**Shield (outer):** Steel, nickel finish

**Shield (inner):** Phosphor bronze, nickel finish

**Insert:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass 0.020 (0.508mm) diameter phosphor bronze

**Contact Finish:** 10 microinch gold over 50 microinch nickel

#### Mechanical Characteristics

**Contact Separation Force:** 1.35 ounces, minimum per contact

**Contact Engagement Force:** 1.60 ounces, maximum per contact

#### Electrical Characteristics

**Contact Current Rating:** 1 amp

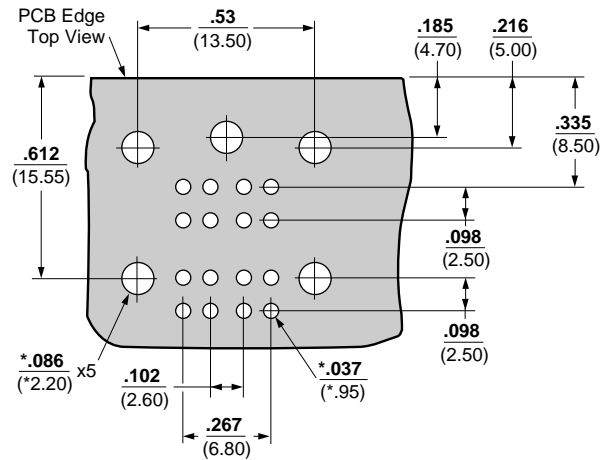
**Contact Resistance:** 30 milliohms maximum

**Dielectric Withstanding Voltage:** 500 Vac

**Insulation Resistance:** 1000 megohms minimum

**Temperature Rating:** -25° C to + 85° C

### PCB LAYOUT



### HOW TO ORDER

**MMDFS - 8 / 8 S O B - 2**

**Series**

**Number of Positions - Top**  
4, 6, 8

**Number of Positions - Bottom**  
4, 6, 8

**Shielded**

**O** — Grounding Tab

**Plating**

2 — 10 microinch gold

**Color**

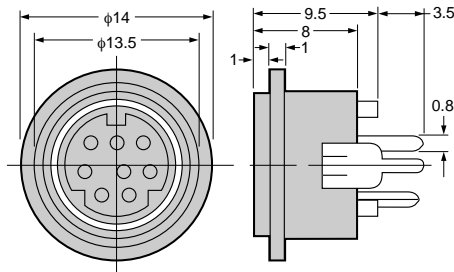
B — Black

MINI-DIN CONNECTORS

# MMDV Series Circular Connectors Vertical Type, 3 to 8 Contacts



**DIMENSIONS— 3 TO 8 CONTACTS**



**MAXCONN - (Back to Table of Contents)**

Performance Specifications

Materials and Finish

**Shield/Shield:** Steel, nickel finish

**Insert:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:** Plated silver 30 microinch over 50 microinch nickel

Mechanical Characteristics

**Contact Separation Force:** 0.9 Kg to 3 Kg

**Contact Engagement Force:** 4.5 Kg maximum

Electrical Characteristics

**Contact Current Rating:** 100 Vac, 1 amp maximum or 12Vdc, 2 amp maximum

**Contact Resistance:** 30 milliohms maximum

**Dielectric Withstanding Voltage:** 250 Vac/1 minute

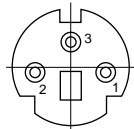
**Insulation Resistance:** 50 megohms minimum at 250 Vdc

**Temperature Rating:** -25° C to + 85° C

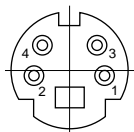
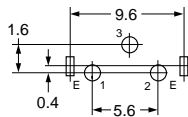
Arrangement of Contacts

Number of Contacts

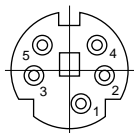
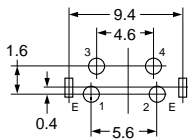
PCB Layout



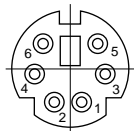
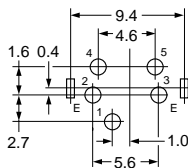
3



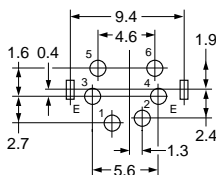
4



5



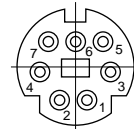
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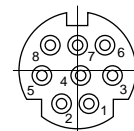
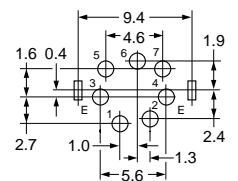
Arrangement of Contacts

Number of Contacts

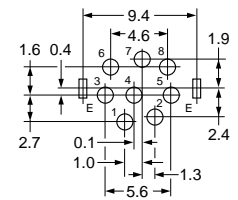
PCB Layout



7



8



HOW TO ORDER

**MMDV - 8**

Series \_\_\_\_\_

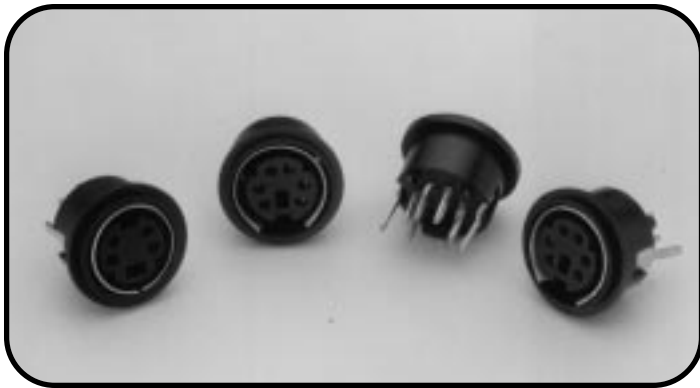
Number of Positions \_\_\_\_\_  
3, 4, 5,  
6, 7, 8



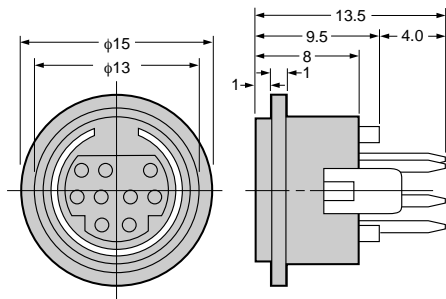
MINI-DIN CONNECTORS

# MMDV Series Circular Connectors Vertical Type, 9 Contacts

MAXCONN - [\(Back to Table of Contents\)](#)



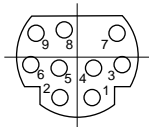
**DIMENSIONS— 9 CONTACTS**



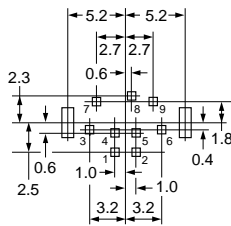
Arrangement  
of Contacts

Number  
of Contacts

PCB  
Layout



9



Performance Specifications

Materials and Finish

**Shield/Shell:** Steel, nickel finish

**Insert:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:** Plated silver 30 microinch over 50 microinch nickel

Mechanical Characteristics

**Contact Separation Force:** 0.9 Kg to 3 Kg

**Contact Engagement Force:** 4.5 Kg maximum

Electrical Characteristics

**Contact Current Rating:** 100 Vac, 1 amp maximum or 12Vdc, 2 amp maximum

**Contact Resistance:** 30 milliohms maximum

**Dielectric Withstanding Voltage:** 250 Vac/1 minute

**Insulation Resistance:** 50 megohms minimum at 250 Vdc

**Temperature Rating:** -25° C to + 85° C

**PART NUMBER: MMDV-9**

# MINI-DIN CONNECTORS

## MMDM Series

### Shielded Male Plug

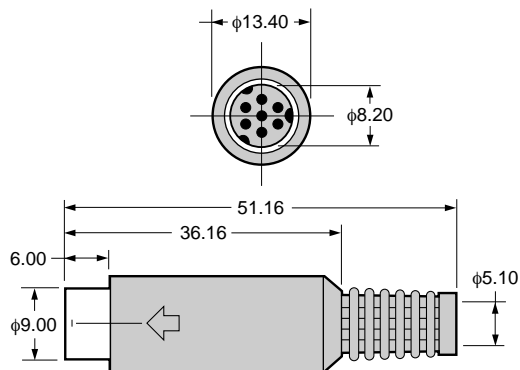
MAXCONN - [\(Back to Table of Contents\)](#)



#### FEATURES

- Male — Shielded
- Polarizing key

#### DIMENSIONS



#### Performance Specifications

##### Materials and Finish

**Shield/Shell:** Steel, nickel finish

**Insert:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Plated silver 30 microinch over 50 microinch nickel

##### Mechanical Characteristics

**Contact Separation Force:** 1.35 ounces, minimum per contact

**Contact Engagement Force:** 1.60 ounces, maximum per contact

##### Electrical Characteristics

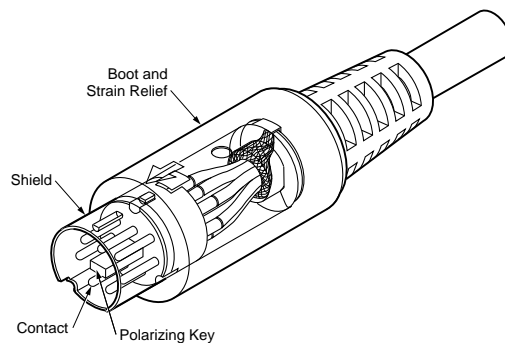
**Contact Current Rating:** 1 amp

**Contact Resistance:** 30 milliohms maximum

**Dielectric Withstanding Voltage:** 500 Vac

**Insulation Resistance:** 1000 megohms minimum

**Temperature Rating:** -25° C to +85° C



#### HOW TO ORDER

**MMDM - 8 - S - B - 1**

**Series**

**Number of Positions**

3, 4, 5,  
6, 7, 8

**S** — Shielded

**Plating**

1 — 50 microinch Silver  
2 — 10 microinch Gold

**Color**

B — Black (Standard)  
A — Platinum\* (Apple Computer)  
I — Pearl white\* (IBM)

\* 5,000 piece minimum order

Arrangement of Contacts	Number of Contacts	Arrangement of Contacts	Number of Contacts
	3		7
	4		8
	5		
	6		