



## Micro-D MWDM-CBR Right Angle Thru-Hole Printed Circuit Board Connectors



**High Performance** – These connectors feature gold-plated TwistPin contacts for best performance. PC tails are .020 inch diameter. Specify nickel-plated shells or cadmium plated shells for best availability.

**Solder-Dipped** – Terminals are coated with Sn60/Pb40 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

**Rear Mountable** – Can be installed through panels up to .125 inch thick. Specify rear panel mount jackposts.

### How To Order CBR Style PCB Micro-D Connectors

| Sample Part Number               | MWDM                                                                                                                                                                                                                                        | 2 | L | -15 | P | CBR | R3 | T | -.110 | 513 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|---|-----|----|---|-------|-----|
| <b>Series</b>                    | MWDM Glenair Micro-D                                                                                                                                                                                                                        |   |   |     |   |     |    |   |       |     |
| <b>Shell Material and Finish</b> | Aluminum Shell      Stainless Steel Shell<br><b>1</b> - Cadmium <b>2</b> - Nickel <b>3</b> - Passivated<br><b>4</b> - Black Anodize<br><b>5</b> - Gold <b>6</b> - Chem Film                                                                 |   |   |     |   |     |    |   |       |     |
| <b>Insulator Material</b>        | <b>L</b> - LCP or PPS<br>LCP - 30% Glass-filled liquid crystal polymer<br>PPS - 40% Glass-filled polyphenylene sulfide                                                                                                                      |   |   |     |   |     |    |   |       |     |
| <b>Contact Layout</b>            | <b>9, 15, 21, 25, 31, 37, 51, 69, 75, 100, 130</b> (See Table II)                                                                                                                                                                           |   |   |     |   |     |    |   |       |     |
| <b>Contact Type</b>              | <b>P</b> – Pin <b>S</b> – Socket                                                                                                                                                                                                            |   |   |     |   |     |    |   |       |     |
| <b>Termination Type</b>          | <b>CBR</b> - Condensed Board Right Angle                                                                                                                                                                                                    |   |   |     |   |     |    |   |       |     |
| <b>Jackpost Option</b>           | (Omit for None) <b>P</b> – Jackpost   Jackposts for Rear Panel Mounting<br><b>R1</b> – .032" Panel <b>R2</b> – .047" Panel <b>R3</b> – .062" Panel<br>(See Table I) <b>R4</b> – .093" Panel <b>R5</b> – .125" Panel <b>R6</b> – .125" Panel |   |   |     |   |     |    |   |       |     |
| <b>Threaded Insert Option</b>    | <b>T</b> - Threaded Insert In Board Mount Hole   Omit - for Thru-Hole                                                                                                                                                                       |   |   |     |   |     |    |   |       |     |
| <b>Terminal Length in Inches</b> | <b>.080, .110, .125, .140, .150, .172, .190, .250</b> Length in Inches ± .015 (0.38)                                                                                                                                                        |   |   |     |   |     |    |   |       |     |
| <b>Gold-Plated</b>               | These connectors are solder-dipped in 60/40 tin-lead solder.                                                                                                                                                                                |   |   |     |   |     |    |   |       |     |
| <b>Terminal Mod Code</b>         | To delete the solder dip and change to gold-plated terminals, add code <b>513</b>                                                                                                                                                           |   |   |     |   |     |    |   |       |     |

Table I: Jackpost Options

| No Designator                                                                                                                | P                                                                            | R1 Thru R6                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <p>THREADED INSERT</p>                                                                                                       |                                                                              | <p>Panel</p>                                                                                                             |
| <p>Thru-Hole</p> <p>For use with Glenair jackposts only. Order hardware separately. Install with threadlocking compound.</p> | <p>Standard Jackpost</p> <p>Factory installed, not intended for removal.</p> | <p>Jackpost for Rear Panel Mounting</p> <p>Shipped loosely installed. Install with permanent threadlocking compound.</p> |

# Micro-D MWDM-CBR Right Angle Thru-Hole Printed Circuit Board Connectors



Micro-D PCB

Table II: Dimensions



| Layout | A Max. |       | B     |       | C Max. |       | D Max. |      | E Max. |       | F    |      | G Max. |       | H    |      | J    |       | K Max. |       | L Max. |       |
|--------|--------|-------|-------|-------|--------|-------|--------|------|--------|-------|------|------|--------|-------|------|------|------|-------|--------|-------|--------|-------|
|        | In.    | mm.   | In.   | mm.   | In.    | mm.   | In.    | mm.  | In.    | mm.   | In.  | mm.  | In.    | mm.   | In.  | mm.  | In.  | mm.   | In.    | mm.   | In.    | mm.   |
| 9P     | .787   | 19.94 | .565  | 14.35 | .333   | 8.46  | .184   | 4.67 | .310   | 7.87  | .183 | 4.65 | .425   | 10.80 | .230 | 5.84 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 9S     | .787   | 19.94 | .565  | 14.35 | .400   | 10.16 | .250   | 6.35 | .310   | 7.87  | .195 | 4.95 | .425   | 10.80 | .230 | 5.84 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 15P    | .937   | 23.75 | .715  | 18.16 | .483   | 12.27 | .184   | 4.67 | .310   | 7.87  | .183 | 4.65 | .425   | 10.80 | .130 | 3.30 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 15S    | .937   | 23.75 | .715  | 18.16 | .551   | 14.00 | .250   | 6.35 | .310   | 7.87  | .195 | 4.95 | .425   | 10.80 | .130 | 3.30 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 21P    | 1.087  | 27.56 | .865  | 21.97 | .633   | 16.08 | .184   | 4.67 | .310   | 7.87  | .183 | 4.65 | .425   | 10.80 | .130 | 3.30 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 21S    | 1.087  | 27.56 | .865  | 21.97 | .701   | 17.81 | .250   | 6.35 | .310   | 7.87  | .195 | 4.95 | .425   | 10.80 | .130 | 3.30 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 25P    | 1.187  | 30.01 | .965  | 24.51 | .733   | 18.62 | .184   | 4.67 | .310   | 7.87  | .183 | 4.65 | .425   | 10.80 | .130 | 3.30 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 25S    | 1.187  | 30.01 | .965  | 24.51 | .801   | 20.35 | .250   | 6.35 | .310   | 7.87  | .195 | 4.95 | .425   | 10.80 | .130 | 3.30 | .250 | 6.35  | ---    | ---   | ---    | ---   |
| 31P    | 1.337  | 33.91 | 1.115 | 28.32 | .883   | 22.43 | .184   | 4.67 | .310   | 7.87  | .183 | 4.65 | .525   | 13.34 | .130 | 3.30 | .250 | 6.35  | .450   | 11.43 | 1.085  | 27.56 |
| 31S    | 1.337  | 33.91 | 1.115 | 28.32 | .951   | 24.16 | .250   | 6.35 | .310   | 7.87  | .195 | 4.95 | .525   | 13.34 | .130 | 3.30 | .250 | 6.35  | .450   | 11.43 | 1.085  | 27.56 |
| 37P    | 1.487  | 37.72 | 1.265 | 32.13 | 1.033  | 26.24 | .184   | 4.67 | .310   | 7.87  | .183 | 4.65 | .525   | 13.34 | .130 | 3.30 | .250 | 6.35  | .450   | 11.43 | 1.185  | 30.10 |
| 37S    | 1.487  | 37.72 | 1.265 | 32.13 | 1.101  | 27.96 | .250   | 6.35 | .310   | 7.87  | .195 | 4.95 | .525   | 13.34 | .130 | 3.30 | .250 | 6.35  | .450   | 11.43 | 1.185  | 30.10 |
| 51P    | 1.435  | 36.45 | 1.215 | 30.86 | .983   | 24.97 | .228   | 5.79 | .351   | 8.92  | .183 | 4.65 | .660   | 16.76 | .150 | 3.81 | .300 | 7.62  | .450   | 11.43 | 1.225  | 31.12 |
| 51S    | 1.435  | 36.45 | 1.215 | 30.86 | 1.051  | 26.70 | .296   | 7.52 | .351   | 8.92  | .195 | 4.95 | .660   | 16.76 | .150 | 3.81 | .300 | 7.62  | .450   | 11.43 | 1.225  | 31.12 |
| 69P    | 1.740  | 44.20 | 1.515 | 38.48 | 1.283  | 32.59 | .228   | 5.79 | .351   | 8.92  | .183 | 4.65 | .750   | 19.05 | .150 | 3.81 | .300 | 7.62  | .450   | 11.43 | 1.530  | 38.86 |
| 69S    | 1.740  | 44.20 | 1.515 | 38.58 | 1.351  | 34.32 | .296   | 7.52 | .351   | 8.92  | .195 | 4.95 | .750   | 19.05 | .150 | 3.81 | .300 | 7.62  | .450   | 11.43 | 1.530  | 38.86 |
| 75P    | 2.080  | 52.83 | 1.705 | 43.31 | 1.384  | 35.15 | .228   | 5.79 | .351   | 8.92  | .183 | 4.65 | .750   | 19.05 | .150 | 3.81 | .300 | 7.62  | .450   | 11.43 | 1.725  | 43.82 |
| 75S    | 2.080  | 52.83 | 1.705 | 43.31 | 1.450  | 36.83 | .296   | 7.52 | .351   | 8.92  | .195 | 4.95 | .750   | 19.05 | .150 | 3.81 | .300 | 7.62  | .450   | 11.43 | 1.725  | 43.82 |
| 100P   | 2.175  | 55.12 | 1.800 | 45.72 | 1.383  | 35.13 | .270   | 6.86 | .394   | 10.01 | .183 | 4.65 | 1.010  | 25.65 | .200 | 5.08 | .400 | 10.16 | .590   | 14.99 | 1.820  | 46.23 |
| 100S   | 2.175  | 55.12 | 1.800 | 45.72 | 1.451  | 36.86 | .333   | 8.46 | .394   | 10.01 | .195 | 4.95 | 1.010  | 25.65 | .200 | 5.08 | .400 | 10.16 | .590   | 14.99 | 1.820  | 46.23 |
| 130P   | 2.520  | 64.01 | 2.150 | 54.61 | 1.735  | 44.07 | .270   | 6.86 | .394   | 10.01 | .183 | 4.65 | 1.010  | 25.65 | .200 | 5.08 | .400 | 10.16 | .620   | 15.75 | 2.160  | 54.86 |
| 130S   | 2.520  | 64.01 | 2.150 | 54.61 | 1.735  | 44.07 | .333   | 8.46 | .394   | 10.01 | .195 | 4.95 | 1.010  | 25.65 | .200 | 5.08 | .400 | 10.16 | .620   | 15.75 | 2.160  | 54.86 |

## Performance Specifications

|                           |                               |
|---------------------------|-------------------------------|
| Current Rating            | 3 AMP                         |
| DWV                       | 600 VAC Sea level             |
| Insulation Resistance     | 5000 Megohms Minimum          |
| Contact Resistance        | 8 Milliohms Maximum           |
| Low Level Contact Resist. | 32 Milliohms Maximum          |
| Magnetic Permeability     | 2 $\mu$ Maximum               |
| Operating Temperature     | -55° C. to +150° C.           |
| Shock, Vibration          | 50 g., 20g.                   |
| Mating Force              | (10 Ounces) X (# of Contacts) |

## Materials and Finishes

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Connector Shell  | Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options |
| Insulator, Tray  | Liquid Crystal Polymer (LCP)/ Polyphenylene Sulfide (PPS)                                             |
| Interfacial Seal | Fluorosilicone Rubber, Blue                                                                           |
| Pin Contact      | Copper Alloy, Gold over Nickel Plating                                                                |
| Socket Contact   | Copper Alloy, Gold Over Nickel Plating                                                                |
| PCB Terminals    | Gold Plated Copper Alloy, Solder Dipped                                                               |
| Hardware         | 300 Series Stainless Steel                                                                            |
| Encapsulant      | Epoxy Resin Hysol EE4215                                                                              |



# Micro-D MWDM-CBR Right Angle Thru-Hole Printed Circuit Board Connectors

## MICRO-D CBR Board Mount Connector PCB Layouts – Pin Connectors

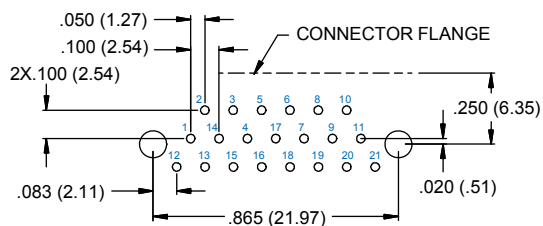
Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



9 PIN



15 PIN



21 PIN



25 PIN



31 PIN



37 PIN



51 PIN



69 PIN

**Micro-D MWDM-CBR  
Right Angle Thru-Hole  
Printed Circuit Board Connectors**



Micro-D PCB

**MICRO-D CBR Board Mount Connector PCB Layouts – Pin Connectors**

Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



**75 PIN**



**100 PIN**



**130 PIN**



# Micro-D MWDM-CBR Right Angle Thru-Hole Printed Circuit Board Connectors

## MICRO-D CBR Board Mount Connector PCB Layouts – Socket Connectors

Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



**9 SOCKET**



**15 SOCKET**



**21 SOCKET**



**25 SOCKET**



**31 SOCKET**



**37 SOCKET**



**51 SOCKET**



**69 SOCKET**

**Micro-D MWDM-CBR  
Right Angle Thru-Hole  
Printed Circuit Board Connectors**



Micro-D PCB

**MICRO-D CBR Board Mount Connector PCB Layouts – Socket Connectors**

Patterns shown are for connector mounting side of PC board. 9 Thru 69 Contacts .096 (2.44) Diameter Mounting Holes, 75-130 Pin .125 (3.18) Diameter



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)