

MWDL Low Profile Plastic Shell Micro-D Right Angle PCB Termination



Micro-D Double
and Triple Row



Low profile MWDL connectors have reduced flange height compared to standard MWDM Micro-D connectors. These thru-hole "CBR" style Micro-D connectors have solder dipped leads, gold-plated leads optional on .100" centers. Connectors are backfilled with epoxy. Pin contacts are gold-plated high performance TwistPin type and are recessed into insulator to prevent damage. Socket contacts are gold plated, machined copper alloy. Stainless steel hardware. Optional #2-56 threaded inserts in board mounting holes. Glass-filled LCP thermoplastic insulators and tray withstand immersion in +260C solder for 10 seconds. Meets performance requirements of MIL-DTL-83513, Class P. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +150°C.

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| How To Order Right Angle PCB Connector | |
|--|--|
| Sample Part Number | MWDL -21 S CBR P T .110 -513 |
| Series | MWDL - Low Profile Plastic Shell Micro-D |
| Contact Layout | 9, 15, 21, 25, 31, 37, 51 |
| Contact Type | P - Pin Contacts S - Socket Contacts |
| Termination Type | CBR - Condensed Board Right Angle |
| Hardware Option | (Omit for None) P - Jackpost Jackposts for Rear Panel Mounting R1 - .032" Panel R2 - .047" Panel R3 - .062" Panel R4 - .093" Panel R5 - .125" Panel R6 - .125" Panel (See Table I) |
| Threaded Insert Option | Omit - For Thru-Holes T - Threaded Inserts in Board Mounting Holes. #2-56 Female Thread. M - Threaded Inserts in Board Mounting Holes. M2 Metric Thread. |
| PC Tail Length | .110, .125, .150, .190, .250 |
| Gold-Plated Terminal Mod Code | Omit - These connectors are solder-dipped in 60/40 tin lead solder. To delete the solder dip and change to gold-plated terminal add code 513 |

| Table I: Jackpost Options | | |
|---|---|---|
| No Designator | P | R1 Thru R5 |
| <p>THREADED INSERT</p> | | <p>Panel</p> |
| <p>Thru-Hole For use with Glenair jackposts only. Order hardware separately. Install with threadlocking compound.</p> | <p>Standard Jackpost Factory installed, not intended for removal.</p> | <p>Jackpost for Rear Panel Mounting Shipped loosely installed. Install with permanent threadlocking compound.</p> |



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Table I: Dimensions



| Layout | A Max. | | B | | C Max. | | D Max. | | E | | F Max. | | G Max. | | H | | J | |
|--------|--------|-------|------------|------------|--------|-------|--------|------|------|------|--------|-------|--------|------|------------|------------|------|------|
| | In. | mm. | In. ± .003 | mm. ± 0.08 | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. ± .010 | mm. ± 0.25 | In. | mm. |
| 9P | .788 | 20.02 | .565 | 14.35 | .292 | 7.42 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .202 | 5.13 | .230 | 5.84 | .134 | 3.40 |
| 9S | .788 | 20.02 | .565 | 14.35 | .380 | 9.65 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .185 | 4.70 | .230 | 5.84 | .218 | 5.54 |
| 15P | .938 | 23.83 | .715 | 18.16 | .442 | 11.23 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .202 | 5.13 | .130 | 3.30 | .134 | 3.40 |
| 15S | .938 | 23.83 | .715 | 18.16 | .530 | 13.46 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .185 | 4.70 | .130 | 3.30 | .218 | 5.54 |
| 21P | 1.088 | 27.64 | .865 | 21.97 | .592 | 15.04 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .202 | 5.13 | .130 | 3.30 | .134 | 3.40 |
| 21S | 1.080 | 27.64 | .865 | 21.97 | .680 | 17.27 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .185 | 4.70 | .130 | 3.30 | .218 | 5.54 |
| 25P | 1.188 | 30.18 | .965 | 24.51 | .692 | 17.58 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .202 | 5.13 | .130 | 3.30 | .134 | 3.40 |
| 25S | 1.185 | 30.18 | .965 | 24.51 | .780 | 19.81 | .218 | 5.54 | .250 | 6.35 | .425 | 10.80 | .185 | 4.70 | .130 | 3.30 | .218 | 5.54 |
| 31P | 1.338 | 33.99 | 1.115 | 28.32 | .842 | 21.39 | .218 | 5.54 | .250 | 6.35 | .525 | 13.34 | .202 | 5.13 | .130 | 3.30 | .134 | 3.40 |
| 31S | 1.338 | 33.99 | 1.115 | 28.32 | .930 | 23.62 | .218 | 5.54 | .250 | 6.35 | .525 | 13.34 | .185 | 4.70 | .130 | 3.30 | .218 | 5.54 |
| 37P | 1.488 | 37.80 | 1.265 | 32.13 | .992 | 25.20 | .218 | 5.54 | .250 | 6.35 | .525 | 13.34 | .202 | 5.13 | .130 | 3.30 | .134 | 3.40 |
| 37S | 1.488 | 37.80 | 1.265 | 32.13 | 1.080 | 27.43 | .218 | 5.54 | .250 | 6.35 | .525 | 13.34 | .185 | 4.70 | .130 | 3.30 | .218 | 5.54 |
| 51P | 1.438 | 36.53 | 1.215 | 30.86 | .942 | 23.93 | .260 | 6.60 | .300 | 7.62 | .660 | 16.76 | .202 | 5.13 | .150 | 3.81 | .177 | 4.50 |
| 51S | 1.438 | 36.53 | 1.215 | 30.86 | 1.030 | 26.16 | .260 | 6.60 | .300 | 7.62 | .660 | 16.76 | .185 | 4.70 | .150 | 3.81 | .260 | 6.60 |

| Performance Specifications | |
|----------------------------|-------------------------------|
| Current Rating | 3 AMP |
| DWV | 600 VAC Sea level |
| Insulation Resistance | 5000 Megohms Minimum |
| Contact Resistance | 8 Milliohms Maximum |
| Operating Temperature | -55° C. to +150° C. |
| Shock, Vibration | 50 g., 20g. |
| Mating Force | (10 Ounces) X (# of Contacts) |

| Materials and Finishes | |
|------------------------|--|
| Connector Body | Liquid Crystal Polymer (LCP), Glass-filled |
| Pin Contact | Beryllium Copper, Gold over Nickel Plating |
| Socket Contact | Copper Alloy, Gold Over Nickel Plating |
| Hardware | 300 Series Stainless Steel |
| Encapsulant | Epoxy |

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MWDL CBR PCB Layouts — Pin Connectors



9 PIN



31 PIN



15 PIN



37 PIN



21 PIN



51 PIN



25 PIN

Notes

1. Patterns shown are for connector mounting side of PC board.
2. Board mounting holes are .094" (2.39) diameter.
3. PC tails are .022" (0.56) maximum diameter.

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MWDL CBR PCB Layouts — Socket Connectors



9 Socket



31 Socket



15 Socket



37 Socket



21 Socket



51 Socket



25 Socket

Notes

1. Patterns shown are for connector mounting side of PC board.
2. Board mounting holes are .094" (2.39) diameter.
3. PC tails are .022" (0.56) maximum diameter.



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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