Series 100 thru 111
DIP Jumpers

FEATURES
- Wide Array of DIP Jumper Configurations and Wiring Possibilities
- Reliable, Electronically-tested Solder Connections
- Protective Covers Ultrasonically-welded with Strain Relief
- Easy Identification and Tracing with 10-color Cable

GENERAL SPECIFICATIONS
- **HEADER BODY AND COVER:** black UL 94V-0 4/6 Nylon
- **HEADER PINS:** Brass 1/2-hard
- **STANDARD PIN PLATING:** 10µ [0.25µ] min. Au per MIL-G-45204 over 50µ [1.27µ] min. Ni per QQ-N-290
- **OPTIONAL PLATING:** 200µ [5.08µ] min. matte Sn per ASTM B545-97(2004)e1 over 50µ [1.27mm] min. Ni per QQ-N-290; -OR- 200µ [5.08µ] 90/10 Sn/Pb per MIL-T-10727 Type I over 50µ [1.27µ] min. Ni per QQ-N-290
- **CABLE INSULATION:** UL style 2697 Polyvinyl Chloride (PVC)
- **CABLE LAMINATE:** clear PVC, self-extinguishing*
- **0.050 [1.27] PITCH CONDUCTORS:** 28-AWG, 7/36-strand, tinned Cu per ASTM B 33
- **0.039 [0.99] PITCH CONDUCTORS:** 26-AWG, 7/34-strand)
- **CABLE CURRENT RATING:** 1 amp at 10°C [50°F] above ambient
- **CABLE VOLTAGE RATING:** 300V
- **CABLE TEMPERATURE RATING:** 176°F [80°C]
- **CABLE CAPACITANCE:** 13.0pF/ft. [42.7pF/meter] nominal at 1MHz*
- **CROSSTALK:** 10-ft sample, 5ns rise time with 2 lines driven; near end 4.7%; far end 4.3% nominal*
- **PROPAGATION DELAY:** 1.5ns/ft. [4.9ns/meter] nominal*
- **INSULATION RESISTANCE:** 1010Ω (10 ft. [3 meters] min.)

MOUNTING CONSIDERATIONS
- **SUGGESTED PCB HOLE SIZE:** 0.033 ±0.002 [0.86 ±0.05] dia.
  * Applies to 0.050 [1.27] Pitch Cable Only

**NUMBER OF CONDUCTORS**

<table>
<thead>
<tr>
<th>Available Sizes</th>
<th>Centers “C”</th>
<th>Dim. “D”</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 thru 20</td>
<td>0.300 [7.62]</td>
<td>0.395 [10.03]</td>
</tr>
<tr>
<td>22</td>
<td>0.400 [10.16]</td>
<td>0.495 [12.57]</td>
</tr>
<tr>
<td>24, 28, 40</td>
<td>0.600 [15.24]</td>
<td>0.695 [17.65]</td>
</tr>
</tbody>
</table>

**ALL DIMENSIONS: INCHES [MILLIMETERS]**
**ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED**
**CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS**

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Series 100 thru 111

DIP Jumpers

Header Detail
(Series 100, 101)

Pin 1 ID w/Chamberer

"L" ± .125

Series 105

Cable Detail
(Series 107/109/111)

"Z" ± .039 [.99]

"Z" = (No. of Conductors - 1) X .039 [.99]

Series 106

WIRE 1

"L" ± .125

Series 107

WIRE 1

"L" ± .125

Series 108

WIRE 1

"L" ± .125

Series 109

WIRE 1

"L" ± .125

Series 110

WIRE 1

"L" ± .125

Series 111

WIRE 1

numbers shown on pin side for reference only

* "K" = (No. of Conductors x .050 [1.27]) + .005 [2.41]
* "B" = (No. of Conductors - 1) x .006 [1.27]

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