# *Power Distribution on FEE Backplane*

- Power fanned across backplane with bus bars connected to 10-pin power taps.
  - Bus bars are 0.109 $in^2$ cross-section Cu, 32% larger than 1/0 AWG wire.
  - Power taps rated at 25A.

| Voltage | $I_{MAX}$ Backplane | # Bugs (25A ea.) |
|---|---|---|
| +/- 6V Analog | 31.25 A | 2 |
| Analog Ground | 31.25 A | 4 |
| +5V Digital | 125 A | 10 |
| Digital Ground | 125 A | 10 |

# Associated Data Sheets



## Power Tap

### Product Facts

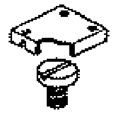
- ACTION PIN contacts eliminate soldering
- Provides high current, separable connection to pc board traces
- Wire-to-board connection using common terminals
- All metal-to-metal assembly for long-term integrity
- Standard DIP outlines (.300 x .100 [7.62 x 2.54]), 10 positions, and .250 x .125 [6.35 x 3.18], 6 and 10 positions
- Low resistance interface
- Internally threaded tap to secure screw to terminal
- Anti-rotational embossments hold wire and terminal in place
- Standard Power Taps rated at 2.5 amps per pin—6 position 15 amps, 10 position 25 amps current carrying capability
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E146446
- Certified by Canadian Standards Association, File No. LR 7139

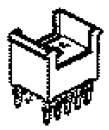
we use 10-pin

AMP Power Taps are designed for the growing need for power to printed circuit board applications required in today's electronic industry. The taps provide a high current, separable connection to a pc board.

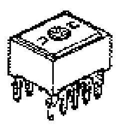
This is a partial listing of Power Taps. For a complete list of part numbers, see Catalog 82159.

.300 x .100 [7.62 x 2.54] High-Profile Tap 10 Position





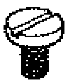
.300 x .100 [7.62 x 2.54] Low-Profile Tap 10 Position

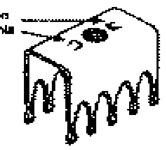


### Standard Insulated Power Tap

| Tap Version | Description | Screw Size | Part Nos. |
|---|---|---|---|
| High-Profile | Housing and contact assembled without screw[1] | 6-32 | 55557-3 |
| | Housing and contact assembled with screw[1,2] | 6-32 | 55557-4 |
| Low-Profile | Housing and contact assembled without screw | 6-32 | 55558-3 |
| | Housing and contact assembled with screw[2] | 6-32 | 55556-4 |
| | Housing and contact assembled without screw | M4 | 55556-9 |
| | Housing and contact assembled with screw[2,3] | 6-32 | 55673-2 |

[1]Cover not assembled
[2]Screw not assembled
[3]No anti-rotation embossments



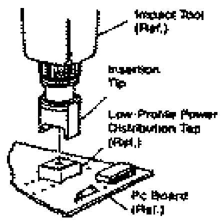

### Standard Uninsulated Power Tap

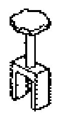
| Size | Description | Screw Size | Part Numbers |
|---|---|---|---|
| .300 x .100 [7.62 x 2.54] 10 Position | Without Screw | 6-32 | 55558-3 |
| | With Screw | 6-32 | 55558-4 |
| | Without Screw | 6-32 | 55558-7 |
| .250 x .125 [6.35 x 3.18] 6 Position | Without Screw | 6-32 | 55323-5 |
| | With Screw | 6-32 | 55323-9 |
| .250 x .125 [6.35 x 3.18] 10 Position | Without Screw | 6-32 | 55323-6 |
| | With Screw | 6-32 | 1-55323-0 |

[1]No anti-rotation embossments

### Installation and Extraction Tooling for Standard Threaded Taps Only

Impact Insertion Tool Part No. 313102-1 (Insertion Tip Part No. 58133-1 required)



Extraction Tool Part No. 68380-1

SOURCE: Catalog 82159

**Figure 6.1:** Power tap data sheet.