

## Terminal Junction Modules



# Electronic Terminal Junction Modules

MIL-T-81714/26 Compatible Class D

### Operating Range

**Temperature:**

-65°C to 200°C\*

**Insulation Resistance:**

5000 Megaohms Min. @ 25°C\*

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.\*

**Vibration & Shock:**

Per MIL-T-81714

Paragraph 3.5.5 & 3.5.9\*

**Current Rating:**

7.5 amps\*

### Materials

**Module Body:**

Polyetherimide per ASTM-D-5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Contact:**

Copper Alloy, Gold Finish

\* May vary due to internal electronic component

### Product Description

Electronic Terminal Junction modules meet all dimensional and performance requirements of M81714/26 and are specifically developed for electronic component packaging. Available for size 20 and 22 contacts, these modules function as highly efficient and reliable Electronic component packages. They improve system efficiency and density by permitting various electronic components such as diodes, resistors, fuses, and capacitors, which usually take up valuable space elsewhere in the system, to be securely packaged within the module housing.

Amphenol Pcd electronic modules offer significant design, material and construction improvements over competitive modules. Hand soldering operations have been completely eliminated. Electronic components are encapsulated in a semi-rigid elastomer that provides electrical spacing and insulation as well as shock and vibration protection.

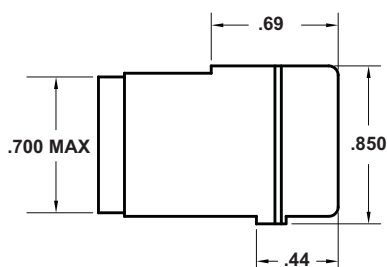
Typical commercially available diode configurations are indicated on this page. A broad variety of additional configurations are available, and modules can be customized to meet specific customer designs. Please contact Amphenol Pcd to review requirements and discuss available options.

### Amphenol Pcd Terminal Junction Module

| Circuit Diagram | APCD P/N  | Diode P/N   | Quantity |
|-----------------|-----------|-------------|----------|
|                 | TJE120810 | JANTX1N5552 | 5        |
|                 | TJE120811 | JANTX1N5552 | 4        |
|                 | TJE120815 | 1N4005      | 2        |
|                 | TJE120998 | BYW56       | 2        |
|                 | TJE120999 | BYW56       | 2        |

### Terminal Junction Module Dimensions

#### Top View



#### Side View



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Amphenol Pcd's Electronic Terminal Junction Modules are available with a variety of components and in a wide range of configurations. Components available include but are not limited to diodes, resistors, fuses, capacitors, thyristors, and inductors, and are also available with multiple components within one module. The following are currently available Electronic Terminal Junction Modules, although there are new configurations produced regularly and customized components are also available.

### Amphenol Pcd Electronic Terminal Junction Modules

| Circuit Diagram | APCD P/N  | Part      | Part P/N                 | Quantity |
|-----------------|-----------|-----------|--------------------------|----------|
|                 | TJE120514 | Capacitor | 620pF                    | 1        |
|                 | TJE120816 | Diode     | IN4003                   | 3        |
|                 | TJE120817 | Diode     | IN4003                   | 2        |
|                 | TJE120818 | Diode     | IN4003                   | 3        |
|                 | TJE120819 | Diode     | IN4003                   | 3        |
|                 | TJE120820 | Diode     | IN4003                   | 3        |
|                 | TJE120822 | Diode     | IN4007                   | 5        |
|                 | TJE120824 | Diode     | JANTX1N5618              | 5        |
|                 | TJE120826 | Diode     | IN4006                   | 2        |
|                 | TJE120827 | Diode     | JANTX1N5552              | 2        |
|                 | TJE120828 | Diode     | JANTX1N5618              | 2        |
|                 | TJE120829 | Diode     | 1N5618                   | 2        |
|                 | TJE120831 | Diode     | 1N5618                   | 2        |
|                 | TJE120833 | Diode     | 1N5418                   | 2        |
| Circuit Diagram | APCD P/N  | Part      | Part P/N                 | Quantity |
|                 | TJE120900 | Resistor  | 10 K $\Omega$ , 1/8 W    | 5        |
|                 | TJE120902 | Resistor  | 150K $\Omega$ , 1/8 W    | 5        |
|                 | TJE120903 | Resistor  | 33 $\Omega$ , 1/4 W      | 2        |
|                 | TJE120904 | Resistor  | 1K $\Omega$ , 1/8 W      | 2        |
|                 | TJE120905 | Resistor  | 1K $\Omega$ , 1/2 W      | 2        |
|                 | TJE120906 | Resistor  | 150 $\Omega$ , 1/2 W     | 1        |
|                 | TJE120907 | Resistor  | 180 $\Omega$ , 1/2 W     | 1        |
|                 | TJE120908 | Resistor  | Various $\Omega$ , 1/2 W | 5        |
|                 | TJE120920 | Resistor  | 54K, 6K $\Omega$ , 1/2W  | 2        |
|                 | TJE120921 | Resistor  | 500K $\Omega$ , 1 W      | 5        |
|                 | TJE120922 | Resistor  | Various $\Omega$ , 1/2 W | 5        |
|                 | TJE120924 | Resistor  | 1K $\Omega$ , 1/4 W      | 4        |
|                 | TJE120927 | Fuse      | 1 AMP                    | 5        |
|                 | TJE120928 | Resistor  | 1.3K $\Omega$ , 1/2 W    | 5        |