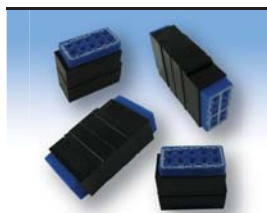


# Terminal Junction Systems

## MIL-T-81714 Series I Class D

### MIL-T-81714 Series I Junction Modules

QPL-approved MIL-T-81714 modules and MIL-C-39029/1 contacts are available in four standard sizes accommodating 12-26 AWG wires in both feedback and feedthru types with full a selection of bussing arrangements. The complete MIL-T-81714 Series I Terminal Junction System includes the following products.



**Feedback Modules  
Feedthru Modules**



**Electronic Modules**



**Ground Modules**



**Single In-Line Splices  
Dual In-Line Splices  
Electronic Splices**



**Mounting Tracks**

### Key Features and Benefits

#### Integral Socket/Bus Bar

The patented integral socket/bus bar assembly provides superior electrical characteristics and assures mechanical integrity over a long product life. This unique design totally eliminates all solder or welded joints which could cause variation in electrical and/or mechanical performance.

#### Integral Contacts

Integral female contacts and bus bar have no mechanical functions- only the electrical conductivity function and are highly conductive alloy for optimum electrical performance.

#### Split Socket Design

Split Socket Design, conforming to the mating pin diameter, provides peripheral surface wipe and contact, while utilizing the maximum mating surfaces of pin and socket.

#### High Density Modules

A recently introduced series of high density modules which conform to all dimensional and performance requirements of MIL-T-81714/17 is now available from Amphenol Pcd. The high density modules accept 21 size 22 contacts in a compact 3x7 configuration, with a wide variety of bus arrangements. The construction features one-piece screw machine contacts with a split socket design for maximum performance. Contacts are securely packaged within a polyetherimide housing.

#### Class D Modules System

Amphenol Pcd was the first supplier to qualify module and track systems to high performance MIL-T-81714 Series I Class D requirements. Class D systems combine the maximum high temperature and high fluid resistance performance parameters previously divided among three module classes A,B, and C.

#### Electronic Splices

TJSE electronic modules can be supplied with a wide variety of diodes, resistors, capacitors, and fuses within the splice itself. TJSE electronic splices meet the electrical parameters of MIL-81714/24 and allow customers to incorporate system modifications into a wire bundle, avoiding changes in panel modules.



# Military Qualified, QPL-Listed

## MIL-T-81714 Series I, Class D

### Class D Feedback Modules

| Military P/N  | Amphenol Pcd P/N | Page |
|---------------|------------------|------|
| M81714/1-DA1  | TJM122701        | 36   |
| M81714/1-DB1  | TJM122702        | 36   |
| M81714/1-DB2  | TJM122703        | 36   |
| M81714/1-DB3  | TJM122704        | 36   |
| M81714/1-DC1  | TJM122705        | 36   |
| M81714/1-DC2  | TJM122706        | 36   |
| M81714/1-DC3  | TJM122710        | 36   |
| M81714/1-DC4  | TJM122712        | 36   |
| M81714/1-DD1  | TJM122707        | 36   |
| M81714/1-DD2  | TJM122711        | 36   |
| M81714/1-DE1  | TJM122708        | 36   |
|               |                  |      |
| M81714/2-DA1  | TJM120701        | 37   |
| M81714/2-DB1  | TJM120702        | 37   |
| M81714/2-DB2  | TJM120703        | 37   |
| M81714/2-DB3  | TJM120704        | 37   |
| M81714/2-DC1  | TJM120705        | 37   |
| M81714/2-DC2  | TJM120706        | 37   |
| M81714/2-DC3  | TJM120710        | 37   |
| M81714/2-DC4  | TJM120712        | 37   |
| M81714/2-DD1  | TJM120707        | 37   |
| M81714/2-DD2  | TJM120711        | 37   |
| M81714/2-DE1  | TJM120708        | 37   |
|               |                  |      |
| M81714/3-DA1  | TJM116701        | 38   |
| M81714/3-DB1  | TJM116702        | 38   |
| M81714/3-DB2  | TJM116703        | 38   |
| M81714/3-DC1  | TJM116705        | 38   |
| M81714/3-DC2  | TJM116706        | 38   |
| M81714/3-DD1  | TJM116707        | 38   |
|               |                  |      |
| M81714/4-DA1  | TJM112701        | 39   |
| M81714/4-DB1  | TJM112702        | 39   |
| M81714/4-DB2  | TJM112703        | 39   |
| M81714/4-DC1  | TJM112705        | 39   |
| M81714/4-DC2  | TJM112706        | 39   |
| M81714/4-DD1  | TJM112707        | 39   |
|               |                  |      |
| M81714/17-D30 | TJHD22700        | 40   |
| M81714/17-D31 | TJHD22701        | 40   |
| M81714/17-D32 | TJHD22702        | 40   |
| M81714/17-D33 | TJHD22703        | 40   |
| M81714/17-D34 | TJHD22704        | 40   |
| M81714/17-D35 | TJHD22705        | 40   |
| M81714/17-D36 | TJHD22706        | 40   |
| M81714/17-D37 | TJHD22707        | 40   |
| M81714/17-D38 | TJHD22708        | 40   |
| M81714/17-D39 | TJHD22709        | 40   |
| M81714/17-D40 | TJHD22710        | 40   |
| M81714/17-D42 | TJHD22712        | 40   |
| M81714/17-D43 | TJHD22713        | 40   |
| M81714/17-D44 | TJHD22714        | 40   |
| M81714/17-D45 | TJHD22715        | 40   |

### Class D Feedthru Modules

| Military P/N | Amphenol Pcd P/N | Page |
|--------------|------------------|------|
| M81714/6-DA1 | TJM222701        | 36   |
| M81714/6-DB1 | TJM222702        | 36   |
| M81714/6-DB2 | TJM222703        | 36   |
| M81714/6-DB3 | TJM222704        | 36   |
| M81714/6-DC1 | TJM222705        | 36   |
| M81714/6-DC2 | TJM222706        | 36   |
| M81714/6-DD1 | TJM222707        | 36   |
| M81714/6-DE1 | TJM222708        | 36   |
| M81714/6-DJ1 | TJM222709        | 36   |
|              |                  |      |
| M81714/7-DA1 | TJM220701        | 37   |
| M81714/7-DB1 | TJM220702        | 37   |
| M81714/7-DB2 | TJM220703        | 37   |
| M81714/7-DB3 | TJM220704        | 37   |
| M81714/7-DC1 | TJM220705        | 37   |
| M81714/7-DC2 | TJM220706        | 37   |
| M81714/7-DD1 | TJM220707        | 37   |
| M81714/7-DE1 | TJM220708        | 37   |
| M81714/7-DJ1 | TJM220709        | 37   |
|              |                  |      |
| M81714/8-DA1 | TJM216701        | 38   |
| M81714/8-DB1 | TJM216702        | 38   |
| M81714/8-DB2 | TJM216703        | 38   |
| M81714/8-DC1 | TJM216705        | 38   |
| M81714/8-DC2 | TJM216706        | 38   |
| M81714/8-DD1 | TJM216707        | 38   |
| M81714/8-DG1 | TJM216708        | 38   |
| M81714/8-DH1 | TJM216709        | 38   |
|              |                  |      |
| M81714/9-DA1 | TJM212701        | 39   |
| M81714/9-DB2 | TJM212702        | 39   |
| M81714/9-DB3 | TJM212703        | 39   |
| M81714/9-DC1 | TJM212705        | 39   |
| M81714/9-DC2 | TJM212706        | 39   |
| M81714/9-DD1 | TJM212707        | 39   |
| M81714/9-DH1 | TJM212709        | 39   |

## Terminal Junction Modules

# M81714/1, /6

## Series I Size 22 Class D



### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms @ 25°C

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

#### Current Rating

5 Amps

#### Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Blend Elastomer per A-A-59588

#### Contact Retainers:

Stainless Steel

#### Internal Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

#### Accepts Multiple Wire Sizes:

Size 22, 24, 26 AWG

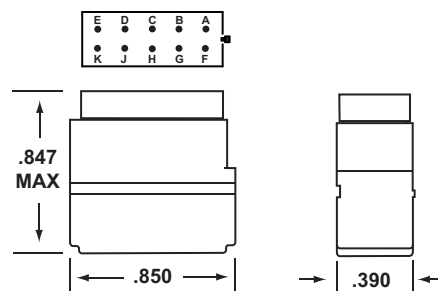
## Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback     |           | Feedthru     |           | QTY* | Contact           |            |
|------------------------|--------------|-----------|--------------|-----------|------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N | APCD P/N  |      | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/1-DA1 | TJM122701 | M81714/6-DA1 | TJM222701 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DB1 | TJM122702 | M81714/6-DB1 | TJM222702 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DB2 | TJM122703 | M81714/6-DB2 | TJM222703 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DB3 | TJM122704 | M81714/6-DB3 | TJM222704 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC1 | TJM122705 | M81714/6-DC1 | TJM222705 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC2 | TJM122706 | M81714/6-DC2 | TJM222706 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC3 | TJM122710 |              |           | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC4 | TJM122712 |              |           | 10   | 16/22             | /1-100     |
|                        | M81714/1-DD1 | TJM122707 | M81714/6-DD1 | TJM222707 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DD2 | TJM122711 |              |           | 10   | 16/22             | /1-100     |
|                        | M81714/1-DE1 | TJM122708 | M81714/6-DE1 | TJM222708 | 10   | 16/22             | /1-100     |
|                        |              |           | M81714/6-DJ1 | TJM222709 | 10   | 16/22             | /1-100     |

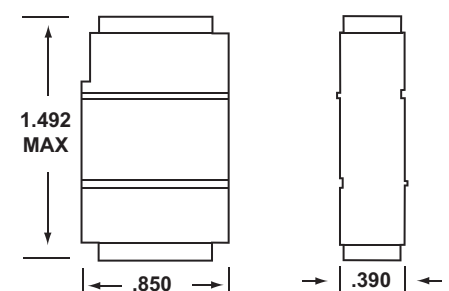
\* Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.  
<sup>1</sup> Mating Pin / Wire Barrel

## Terminal Junction Module Dimensions

### Feedback Dimensions



### Feedthru Dimensions



# M81714/2, /7

## Series I Size 20 Class D

### Terminal Junction Modules



**Operating Range**  
**Temperature:**  
-65°C to 200°C  
**Insulation Resistance:**  
5000 Megaohms @ 25°C  
**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
200 VRMS at 100,000 ft.  
**Current Rating**  
7.5 Amps  
**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

**Materials**  
**Module Body:**  
Polyetherimide per ASTM-D5205  
**Grommet:**  
Silicone Blend Elastomer per A-A-59588  
**Contact Retainers:**  
Stainless steel  
**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204  
**Accepts Multiple Wire Sizes:**  
Size 20, 22, 24 AWG

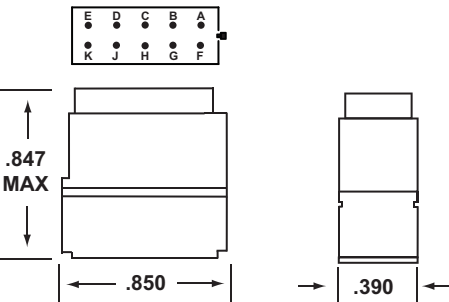
### Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback     |           | Feedthru     |           | QTY* | Contact           |            |
|------------------------|--------------|-----------|--------------|-----------|------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N | APCD P/N  |      | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/2-DA1 | TJM120701 | M81714/7-DA1 | TJM220701 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DB1 | TJM120702 | M81714/7-DB1 | TJM220702 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DB2 | TJM120703 | M81714/7-DB2 | TJM220703 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DB3 | TJM120704 | M81714/7-DB3 | TJM220704 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DC1 | TJM120705 | M81714/7-DC1 | TJM220705 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DC2 | TJM120706 | M81714/7-DC2 | TJM220706 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DC3 | TJM120710 |              |           | 10   | 16/20             | /1-101     |
|                        | M81714/2-DC4 | TJM120712 |              |           | 10   | 16/20             | /1-101     |
|                        | M81714/2-DD1 | TJM120707 | M81714/7-DD1 | TJM220707 | 10   | 16/20             | /1-101     |
|                        | M81714/2-DD2 | TJM120711 |              |           | 10   | 16/20             | /1-101     |
|                        | M81714/2-DE1 | TJM120708 | M81714/7-DE1 | TJM220708 | 10   | 16/20             | /1-101     |
|                        |              |           | M81714/7-DJ1 | TJM220709 | 10   | 16/20             | /1-101     |

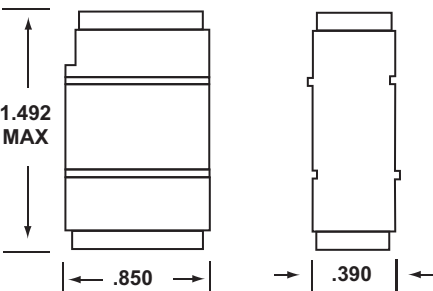
\* Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.  
<sup>1</sup> Mating Pin / Wire Barrel

### Terminal Junction Module Dimensions

#### Feedback Dimensions



#### Feedthru Dimensions



Amphenol Pcd

## Terminal Junction Modules



# M81714/3, /8

## Series I Size 16 Class D

### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms @ 25°C

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

#### Current Rating

13 Amps

#### Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Blend Elastomer per A-A-59588

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

#### Accepts Multiple Wire Sizes:

Size 16, 18, 20 AWG

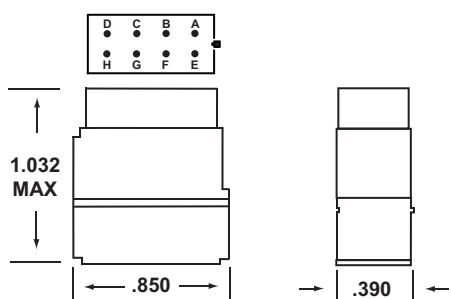
## Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback     |           | Feedthru     |           | Contact |                   |            |
|------------------------|--------------|-----------|--------------|-----------|---------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/3-DA1 | TJM116701 | M81714/8-DA1 | TJM216701 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DB1 | TJM116702 | M81714/8-DB1 | TJM216702 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DB2 | TJM116703 | M81714/8-DB2 | TJM216703 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DC1 | TJM116705 | M81714/8-DC1 | TJM216705 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DC2 | TJM116706 | M81714/8-DC2 | TJM216706 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DD1 | TJM116707 | M81714/8-DD1 | TJM216707 | 8       | 14/16             | /1-102     |
|                        |              |           | M81714/8-DG1 | TJM216708 | 8       | 14/16             | /1-102     |
|                        |              |           | M81714/8-DH1 | TJM216709 | 8       | 14/16             | /1-102     |

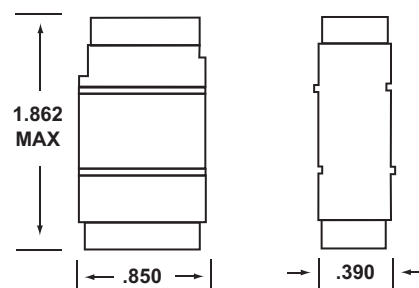
\* Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.  
<sup>1</sup> Mating Pin / Wire Barrel

## Terminal Junction Module Dimensions

### Feedback Dimensions



### Feedthru Dimensions





# M81714/4, /9

## Series I Size 12 Class D

### Operating Range

**Temperature:**  
 -65°C to 200°C  
**Insulation Resistance:**  
 5000 Megaohms @ 25°C  
**Dielectric Withstanding Voltage:**  
 1500 VRMS at Sea Level  
 200 VRMS at 100,000 ft.  
**Current Rating**  
 23 Amps  
**Vibration & Shock:**  
 MIL-T-81714 Paragraph  
 3.5.5 and 3.5.8

### Materials

**Module Body:**  
 Polyetherimide per ASTM-D5205  
**Grommet:**  
 Silicone Blend Elastomer per A-A-59588  
**Contact Retainers:**  
 Stainless steel  
**Internal Socket Contacts:**  
 Copper Alloy, Hard Gold Plated in  
 Accordance with MIL-G-45204  
**Accepts Multiple Wire Sizes:**  
 Size 12, 14 AWG

### Terminal Junction Modules



### Terminal Junction Modules

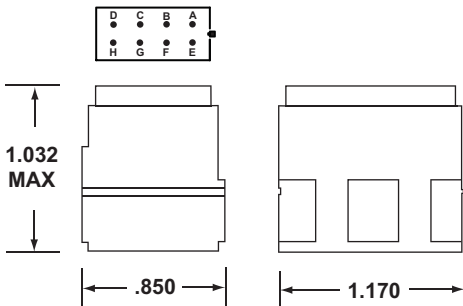
| Bussing Configurations | Feedback     |           | Feedthru      |           | QTY* | Contact           |            |
|------------------------|--------------|-----------|---------------|-----------|------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N  | APCD P/N  |      | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/4-DA1 | TJM112701 | M81714/9-DA1  | TJM212701 | 8    | 12/12             | /1-103     |
|                        | M81714/4-DB1 | TJM112702 | M81714/9-DB1  | TJM212702 | 8    | 12/12             | /1-103     |
|                        | M81714/4-DB2 | TJM112703 | M81714/9-DB2  | TJM212703 | 8    | 12/12             | /1-103     |
|                        | M81714/4-DC1 | TJM112705 | M/81714/9-DC1 | TJM212705 | 8    | 12/12             | /1-103     |
|                        | M81714/4-DC2 | TJM112706 | M81714/9-DC2  | TJM212706 | 8    | 12/12             | /1-103     |
|                        | M81714/4-DD1 | TJM112707 | M81714/9-DD1  | TJM212707 | 8    | 12/12             | /1-103     |
|                        |              |           | M81714/9-DH1  | TJM212709 | 8    | 12/12             | /1-103     |

\* Contact quantity for feedthru is double feedback. Quantity figure denotes number os contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.

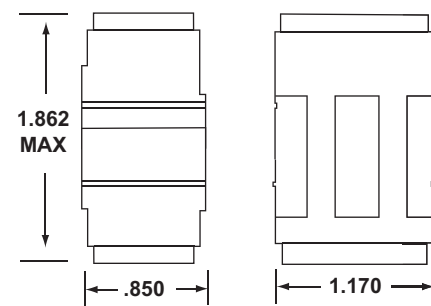
<sup>1</sup> Mating Pin / Wire Barrel

### Terminal Junction Module Dimensions

#### Feedback Dimensions



#### Feedthru Dimensions



Amphenol Pcd

# M81714/17 High Density Modules

## Series I Size 22D Class D

### Terminal Junction Modules



#### Operating Range

**Temperature:**  
-65°C to 200°C  
**Insulation Resistance:**  
5000 Megaohms @ 25°C  
**Dielectric Withstanding Voltage:**  
1000 VRMS at Sea Level  
200 VRMS at 110,000 ft.  
**Current Rating**  
5 Amps  
**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

#### Materials

**Module Body:**  
Polyetherimide per ASTM-D5205  
**Grommet:**  
Silicone Blend Elastomer per A-A-59588  
**Contact Retainers:**  
Stainless Steel  
**Internal Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204  
**Accepts Multiple Wire Sizes:**  
Size 22, 26 AWG

### Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback      |           |
|------------------------|---------------|-----------|
|                        | Military P/N  | APCD P/N  |
|                        | M81714/17-D30 | TJHD22700 |
|                        | M81714/17-D31 | TJHD22701 |
|                        | M81714/17-D32 | TJHD22702 |
|                        | M81714/17-D33 | TJHD22703 |
|                        | M81714/17-D34 | TJHD22704 |
|                        | M81714/17-D35 | TJHD22705 |
|                        | M81714/17-D36 | TJHD22706 |
|                        | M81714/17-D37 | TJHD22707 |

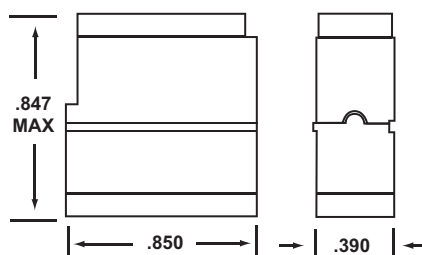
| Bussing Configurations | Feedback      |           |
|------------------------|---------------|-----------|
|                        | Military P/N  | APCD P/N  |
|                        | M81714/17-D38 | TJHD22708 |
|                        | M81714/17-D39 | TJHD22709 |
|                        | M81714/17-D40 | TJHD22710 |
|                        | M81714/17-D42 | TJHD22712 |
|                        | M81714/17-D43 | TJHD22713 |
|                        | M81714/17-D44 | TJHD22714 |
|                        | M81714/17-D45 | TJHD22715 |

Contacts Supplied: M39029/1-507 Qty 22

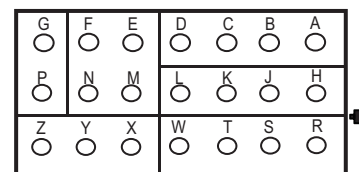


### Terminal Junction Module Dimensions

#### Feedback Dimensions



#### Bussing Configuration



Contacts Supplied: M39029/1-507  
Quantity Supplied: 22

# M81714/27 Ground Stud Modules

Series II Size 22, 20, 16, 12, Class D

## Terminal Junction Modules



### Operating Range

**Temperature:**

-65°C to 200°C

**Current Rating**

5 Amps (Size 22)

7.5 Amps (Size 20)

13 Amps (Size 16)

23 Amps (Size 12)

**Vibration & Shock:**

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Blend Elastomer per A-A-59588

**Mounting Stud:**

Copper Alloy, Gold Plated per

SAE-AMS-2422.

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

## Terminal Grounding Modules Part Numbers

| Part Numbers            |           |      | Contact           |            |
|-------------------------|-----------|------|-------------------|------------|
| Military Equivalent P/N | APCD P/N  | QTY* | Size <sup>1</sup> | P/N M39029 |
| M81714/27-22            | TJG122701 | 10   | 16/22             | /1-100     |
| M81714/27-20            | TJG120701 | 10   | 16/20             | /1-101     |
| M81714/27-16            | TJG116701 | 8    | 14/16             | /1-102     |
| M81714/27-12            | TJG112701 | 8    | 12/12             | /1-103     |

\* Mating End/ Wire Barrel

<sup>1</sup> Quantity figure denotes number of contacts accommodated by module. Modules are supplied with two additional spare contacts and sealing plugs

## Product Description

Multi-contact grounding/bus connection modules are provided with an integral threaded grounding stud. The stud is electrically and mechanically common to all internal contacts of the module.

Electrical connection and mechanical mounting are achieved through a single #10-32 stud. The modules are dimensional identical to the equivalent MIL-T-81714/27 grounding stud modules.

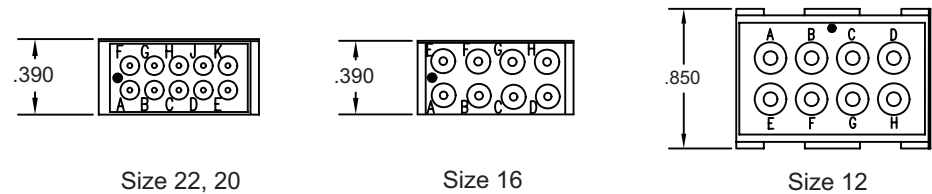
Direct mounting to a ground plane or ground wire with the terminal lug creates a convenient multi-wire sealed grounding device.

Direct attachment to a bus bar transforms the device into a bus connection module for multi-contact power distribution, sensing or metering.

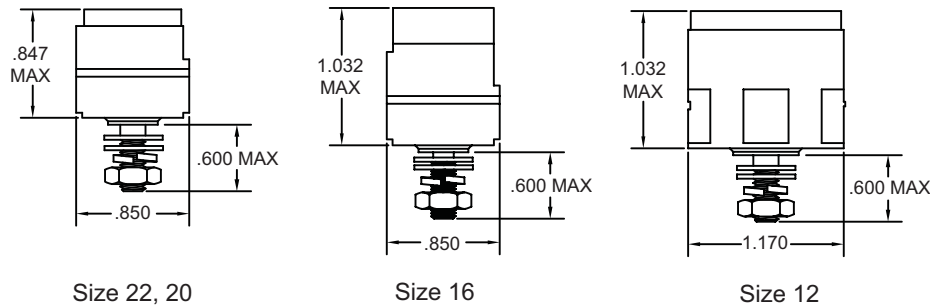
All modules are furnished with complete mounting hardware.

## Terminal Junction Module Dimensions

### Top View



### Side View



# Amphenol Pcd



## 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.

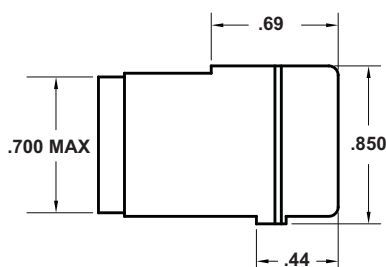
Typical commercially available diode configurations are indicated on this page. A broad variety of additional configurations are available, and modules can be customized to meet specific customer designs. Please contact Amphenol Pcd to review requirements and discuss available options.

### Amphenol Pcd Terminal Junction Module

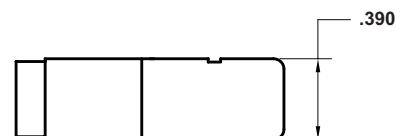
| Circuit Diagram | APCD P/N  | Diode P/N   | Quantity |
|-----------------|-----------|-------------|----------|
|                 | TJE120810 | JANTX1N5552 | 5        |
|                 | TJE120811 | JANTX1N5552 | 4        |
|                 | TJE120815 | 1N4005      | 2        |
|              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

### Terminal Junction Module Dimensions

#### Top View



#### Side View



# Electronic Terminal Junction Modules

## MIL-T-81714/26 Compatible Class D

### Terminal Junction Modules

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        |

## Terminal Junction Splices



# Terminal Junction Splices

Single/ Dual/ Diode M81714/11, /12,/24 Series I

### Operating Range

**Temperature:**

-65°C to 200°C

**Insulation Resistance:**

5000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

**Vibration & Shock:**

Per AS-81714

Paragraph 3.5.5 & 3.5.8

### Materials

**Insulator Body:**

Polyetherimide per ASTM-D-5205

**Grommet:**

Silicone Rubber per A-A-59588

**Internal Contact:**

Copper Alloy, Gold Finish

Accordance with MIL-G-45204

## Product Description

Single and Dual Splices and Electronic Splices are designed to provide a quick and efficient solution to customer wiring requirements.

Single and Dual Wire Splices meet MIL-T-81714/11 & 12 requirements and are highly resistant to temperature and fluids.

TJSE electronic modules can be supplied with a wide variety of diodes, resistors, capacitors, and fuses within the splice itself. TJSE electronic splices meet the electronic parameters of MIL-81714/24 and allow customers to incorporate system modifications into a wire bundle, avoiding changes in panels or boards.

Typical examples are represented to the right, but customer specific designs are welcomed, and an extensive list of existing splices are available on the next page.

## Single Wire Splices

|  | Contacts      |           | Part Numbers |       |              |
|--|---------------|-----------|--------------|-------|--------------|
|  | Military P/N  | APCD P/N  | Quantity     | Size* | Part No.     |
|  | M81714/11-22D | TJS322700 | 2            | 16/22 | M39029/1-100 |
|  | M81714/11-20D | TJS320700 | 2            | 16/20 | M39029/1-101 |
|  | M81714/11-12D | TJS316700 | 2            | 14/16 | M39029/1-102 |
|  | M81714/11-16D | TJS312700 | 2            | 12/12 | M39029/1-103 |

## Dual Wire Splices

| Bussing Type | Part Numbers  |           | Contacts |       | Diameter   |      |      |
|--------------|---------------|-----------|----------|-------|------------|------|------|
|              | MIL P/N 81714 | APCD P/N  | Quantity | Size* | P/N M39029 | A    | B    |
|              | /12-22D-1     | TJS322701 | 4        | 16/22 | /1-100     | .400 | .275 |
|              | /12-20D-1     | TJS320701 | 4        | 16/20 | /1-101     | .400 | .275 |
|              | /12-16D-1     | TJS316701 | 4        | 14/16 | /1-102     | .500 | .300 |
|              | /12-22D-2     | TJS322702 | 4        | 16/22 | /1-100     | .400 | .275 |
|              | /12-20D-2     | TJS320702 | 4        | 16/20 | /1-101     | .400 | .275 |
|              | /12-16D-2     | TJS316702 | 4        | 14/16 | /1-102     | .500 | .300 |

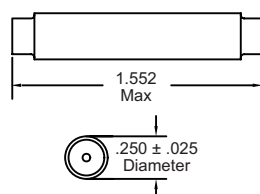
## Electronic Splices

| Circuit<br>Type                                                                     | Part Numbers |             | Diode    |       | Contacts |            |  |
|-------------------------------------------------------------------------------------|--------------|-------------|----------|-------|----------|------------|--|
|                                                                                     | APCD P/N     | Diode P/N   | Quantity | Size* | Quantity | P/N M39029 |  |
|  | TJSE22707    | JANTX1N5622 | 1        | 16/22 | 4        | 1-100      |  |
|                                                                                     | TJSE20705    | JANTX1N5622 | 1        | 16/20 | 4        | 1-101      |  |
|  | TJSE22709    | JANTX1N5622 | 2        | 16/22 | 4        | 1-100      |  |
|                                                                                     | TJSE20705    | JANTX1N5622 | 2        | 16/20 | 4        | 1-101      |  |

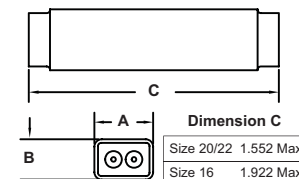
\*Mating Pin Wire Barrel

## Relay Socket Dimensions

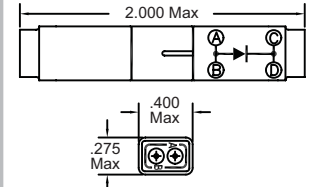
### Single Splice



### Double Splice



### Electronic Splice



# Electronic Terminal Junction Splices

## MIL-T-81714/24 Compatible Class D

### Terminal Junction Modules

Amphenol Pcd's Electronic Terminal Junction Splices 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 Splices, although there are new configurations produced regularly and customized components are also available.



### Amphenol Pcd Terminal Junction Splices

Circuit Diagram    APCD P/N    Part    Part P/N    Quantity

|  |           |          |         |   |
|--|-----------|----------|---------|---|
|  | TJSE20501 | Inductor | 1 100μH | 1 |
|--|-----------|----------|---------|---|

|  |           |      |            |   |
|--|-----------|------|------------|---|
|  | TJSE20503 | Fuse | 5 AMP 125V | 1 |
|--|-----------|------|------------|---|

|  |           |          |             |   |
|--|-----------|----------|-------------|---|
|  | TJSE20505 | Resistor | RW81 38Ω 1W | 1 |
|--|-----------|----------|-------------|---|

|  |           |          |            |   |
|--|-----------|----------|------------|---|
|  | TJSE20506 | Resistor | 120 Ω 1/4W | 2 |
|--|-----------|----------|------------|---|

|  |           |       |       |   |
|--|-----------|-------|-------|---|
|  | TJSE20509 | Diode | 5 Amp | 2 |
|--|-----------|-------|-------|---|

|  |           |       |            |   |
|--|-----------|-------|------------|---|
|  | TJSE20510 | Diode | 1 Amp 125V | 1 |
|--|-----------|-------|------------|---|

|  |           |           |       |   |
|--|-----------|-----------|-------|---|
|  | TJSE20513 | Capacitor | 620pF | 1 |
|--|-----------|-----------|-------|---|

|  |           |           |       |   |
|--|-----------|-----------|-------|---|
|  | TJSE20520 | Capacitor | 390pF | 5 |
|--|-----------|-----------|-------|---|

|  |           |          |           |   |
|--|-----------|----------|-----------|---|
|  | TJSE20523 | Resistor | 15KΩ 1/4W | 1 |
|--|-----------|----------|-----------|---|

|  |           |          |            |   |
|--|-----------|----------|------------|---|
|  | TJSE20525 | Resistor | 10K Ω 1/4W | 1 |
|--|-----------|----------|------------|---|

|  |           |          |            |   |
|--|-----------|----------|------------|---|
|  | TJSE20526 | Resistor | 910 Ω 1/4W | 1 |
|--|-----------|----------|------------|---|

|  |           |          |          |   |
|--|-----------|----------|----------|---|
|  | TJSE20553 | Resistor | 1KΩ 1/2W | 1 |
|--|-----------|----------|----------|---|

|  |           |          |           |   |
|--|-----------|----------|-----------|---|
|  | TJSE20554 | Resistor | 18KΩ 1/2W | 2 |
|--|-----------|----------|-----------|---|

|  |           |          |           |   |
|--|-----------|----------|-----------|---|
|  | TJSE20555 | Resistor | 18KΩ 1/2W | 1 |
|--|-----------|----------|-----------|---|

Circuit Diagram    APCD P/N    Part    Part P/N    Quantity

|  |           |       |             |   |
|--|-----------|-------|-------------|---|
|  | TJSE20599 | Diode | JANTX1N5554 | 1 |
|--|-----------|-------|-------------|---|

|  |           |       |             |   |
|--|-----------|-------|-------------|---|
|  | TJSE20602 | Diode | JANTX1N5618 | 2 |
|--|-----------|-------|-------------|---|

|  |           |       |        |   |
|--|-----------|-------|--------|---|
|  | TJSE20703 | Diode | 1N5819 | 2 |
|--|-----------|-------|--------|---|

|  |           |       |             |   |
|--|-----------|-------|-------------|---|
|  | TJSE20705 | Diode | JANTX1N5622 | 1 |
|--|-----------|-------|-------------|---|

|  |           |       |             |   |
|--|-----------|-------|-------------|---|
|  | TJSE20706 | Diode | JANTX1N5622 | 2 |
|--|-----------|-------|-------------|---|

|  |           |       |        |   |
|--|-----------|-------|--------|---|
|  | TJSE20710 | Diode | 1N5622 | 1 |
|--|-----------|-------|--------|---|

|  |           |       |        |   |
|--|-----------|-------|--------|---|
|  | TJSE20711 | Diode | 1N4006 | 2 |
|--|-----------|-------|--------|---|

|  |           |      |            |   |
|--|-----------|------|------------|---|
|  | TJSE22503 | Fuse | 5 AMP 125V | 1 |
|--|-----------|------|------------|---|

|  |           |          |              |   |
|--|-----------|----------|--------------|---|
|  | TJSE22514 | Resistor | 10K Ω, 1/4 W | 1 |
|--|-----------|----------|--------------|---|

|  |           |          |            |   |
|--|-----------|----------|------------|---|
|  | TJSE22517 | Resistor | 120 Ω, 1 W | 1 |
|--|-----------|----------|------------|---|

|  |           |          |              |   |
|--|-----------|----------|--------------|---|
|  | TJSE22523 | Resistor | 75K Ω, 1/2 W | 2 |
|--|-----------|----------|--------------|---|

|  |           |       |             |   |
|--|-----------|-------|-------------|---|
|  | TJSE22707 | Diode | JANTX1N5622 | 2 |
|--|-----------|-------|-------------|---|

|  |           |       |        |   |
|--|-----------|-------|--------|---|
|  | TJSE20599 | Diode | 1N5622 | 1 |
|--|-----------|-------|--------|---|

|  |           |          |               |   |
|--|-----------|----------|---------------|---|
|  | TJSE20599 | Resistor | 78.7 Ω, 1/4 W | 2 |
|--|-----------|----------|---------------|---|

# Amphenol Pcd

## Terminal Junction Modules



# M81714/5, /10, /16 Series I

## Terminal Junction Module Mounting Tracks

### Operating Range

#### Temperature:

-65° to 200°C

#### Corrosion:

No Exposure of Base Metal

After 48 Hours of Salt Spray

#### Magnetic Permeability:

2.0 MU Max.

#### Vibration and Shock:

Per MIL-T-81714 Paragraph

3.5.5 and 3.5.8

#### Materials

##### Rail:

Aluminum Alloy, Black Anodized

Finish per MIL-A-8625

##### Locking Clamp Screw:

Corrosion Resistant, Passivated,

Self Locking

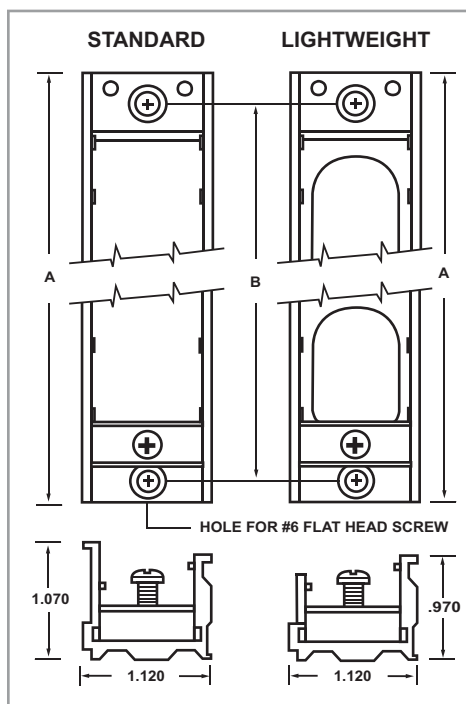
### Product Description

Amphenol Pcd offers feedback and feedthru mounting tracks, as well as a light weight feedback type with weight reduction cutouts per MIL-T-81714/16 for weight critical applications.

One track holds all module sizes. With size 22,20,16 modules requiring one mounting space and size 12 requiring three.

Each track unit consists of an aluminum alloy track and MIL-T-81714/16 anodized black locking clamp. The stainless steel clamp screw is self locking to meet vibration, shock and temperature variation requirements.

## Feedback Track Dimensions

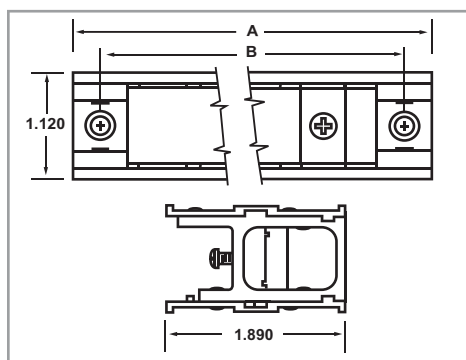


## Feedback Mounting Tracks

| Standard     |           | Lightweight  |           | Dimensions     |      |      |
|--------------|-----------|--------------|-----------|----------------|------|------|
| Military P/N | APCD P/N  | Military P/N | APCD P/N  | Mounting Pos.* | A    | B    |
| M81714/5-1   | TJT701010 | M81714/16-1  | TJT703010 | 10             | 5.29 | 4.79 |
|              | TJT701002 |              | TJT703002 | 2              | 2.17 | 1.67 |
| M81714/5-2   | TJT701003 | M81714/16-2  | TJT703003 | 3              | 2.56 | 2.06 |
| M81714/5-3   | TJT701004 | M81714/16-3  | TJT703004 | 4              | 2.95 | 2.45 |
| M81714/5-4   | TJT701005 | M81714/16-4  | TJT703005 | 5              | 3.34 | 2.84 |
| M81714/5-5   | TJT701006 | M81714/16-5  | TJT703006 | 6              | 3.73 | 3.23 |
| M81714/5-6   | TJT701007 | M81714/16-6  | TJT703007 | 7              | 4.12 | 3.62 |
| M81714/5-7   | TJT701008 | M81714/16-7  | TJT703008 | 8              | 4.51 | 4.01 |
| M81714/5-8   | TJT701009 | M81714/16-8  | TJT703009 | 9              | 4.90 | 4.40 |
| M81714/5-9   | TJT701011 | M81714/16-9  | TJT703011 | 11             | 5.68 | 5.18 |
| M81714/5-10  | TJT701012 | M81714/16-10 | TJT703012 | 12             | 6.07 | 5.57 |
| M81714/5-11  | TJT701013 | M81714/16-11 | TJT703013 | 13             | 6.46 | 5.96 |
| M81714/5-12  | TJT701014 | M81714/16-12 | TJT703014 | 14             | 6.85 | 6.35 |
| M81714/5-13  | TJT701015 | M81714/16-13 | TJT703015 | 15             | 7.24 | 6.74 |
|              | TJT701016 |              | TJT703016 | 16             | 7.63 | 7.13 |
|              | TJT701017 |              | TJT703017 | 17             | 8.02 | 7.52 |
|              | TJT701018 |              | TJT703018 | 18             | 8.41 | 7.91 |
|              | TJT701019 |              | TJT703019 | 19             | 8.80 | 8.30 |
|              | TJT701020 |              | TJT703020 | 20             | 9.19 | 8.69 |

\*Divide by 3 for Size 12 Module Mounting

## Feedthru Track Dimensions



## Feedthru Mounting Tracks

| Standard     |           | Dimensions     |      |      |
|--------------|-----------|----------------|------|------|
| Military P/N | APCD P/N  | Mounting Pos.* | A"   | B"   |
| M81714/10-1  | TJT702010 | 10             | 5.55 | 5.05 |
|              | TJT702002 | 2              | 2.43 | 1.91 |
| M81714/10-2  | TJT702003 | 3              | 2.82 | 2.32 |
| M81714/10-3  | TJT702004 | 4              | 3.21 | 2.71 |
| M81714/10-4  | TJT702005 | 5              | 3.60 | 3.10 |
| M81714/10-5  | TJT702006 | 6              | 3.90 | 3.49 |
| M81714/10-6  | TJT702007 | 7              | 4.38 | 3.88 |
| M81714/10-7  | TJT702008 | 8              | 4.77 | 4.27 |
| M81714/10-8  | TJT702009 | 9              | 5.16 | 4.66 |

\*Divide by 3 for Size 12 Module Mounting



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.



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