

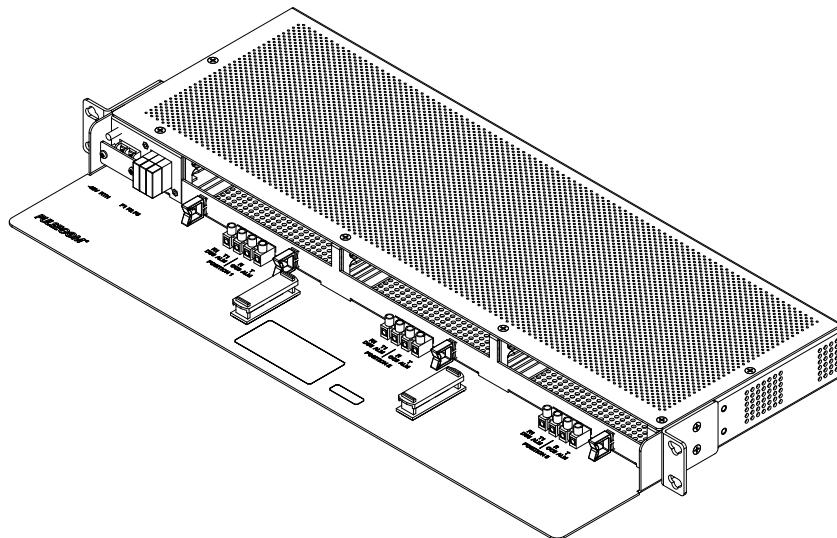
## OC3 TO DS3 MINIATURE SONET MULTIPLEXER 3O3D3-23L2A MOUNTING

CLEI™ Code SOM1X00G, CPR 202615

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### 1. INTRODUCTION

This practice describes the Pulsecom® 3O3D3-23L2A Mounting, shown in Figure 1, for the OC3 to DS3 Miniature SONET Multiplexer O3D3 Family. Installation instructions and engineering references are included.



**Figure 1. 3O3D3-23L2A Mounting**

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*CLEI is a trademark of Telcordia Technologies, Inc.*

*GMT is a trademark of Bussmann Corp.*

*Pulsecom is a registered trademark of Hubbell Inc.*

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## A. Reason for Reissue

### *Equipment*

The 3O3D3-23L2A is identical to the 3O3D3-23L2 except that front-panel fuses have been moved to the left side of the assembly to improve manufacturability. The 3O3D3-23L2A is released to full production.

### *Manual*

This practice has been reissued to update Figure 3.

## B. Description

The 3O3D3-23L2A mounts in a 23" rack and houses up to three 200 Mechanics<sup>®</sup> modules, such as the Pulsecom O3D3.

## C. Features

The mounting provides the following features:

- Accepts up to three 200 Mechanics plug-in modules to provide inexpensive installation in central office (CO), digital loop carrier (DLC) remote terminal (RT), or customer-premises equipment (CPE) applications
- Simple installation and use
- Per-channel fusing
- Front access to all connections
- Integral fiber management via four fiber routing clips and rugged mechanical guard
- Integral coaxial cable management via two cable clips

## 2. INSTALLATION

Table 1 describes the connectors and fuses shown in Figure 2.

Follow Procedure 1 to install the mounting in a 23" rack. Then follow Procedure 2 to connect power, ground, and alarms.

### **WARNING**

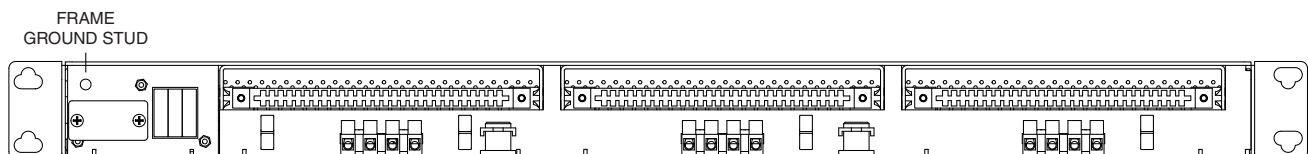
*When connecting fibers to the 3O3D3-23L2A mounting, use care to avoid breaking the fiber. Always follow fiber bend radius guidelines and take advantage of the mechanical fiber guard provided by the 3O3D3-23L2A.*

**Table 1. 3O3D3-23L2A Connectors and Fuses**

Connector	Function
Frame Ground	Stud for frame ground connection
-48V	Screw terminal for -48V power connection
RTN	Screw terminal for power return connection
DS3 ALM	DS3 alarm T1 and R1 terminals for POSITION 1, POSITION 2, and POSITION 3
OC3 ALM	OC3 alarm T and R terminals for POSITION 1, POSITION 2, and POSITION 3
Fuse	Function
F1	0.5A GMT™ fuse to protect POSITION 1
F2	0.5A GMT fuse to protect POSITION 2
F3	0.5A GMT fuse to protect POSITION 3

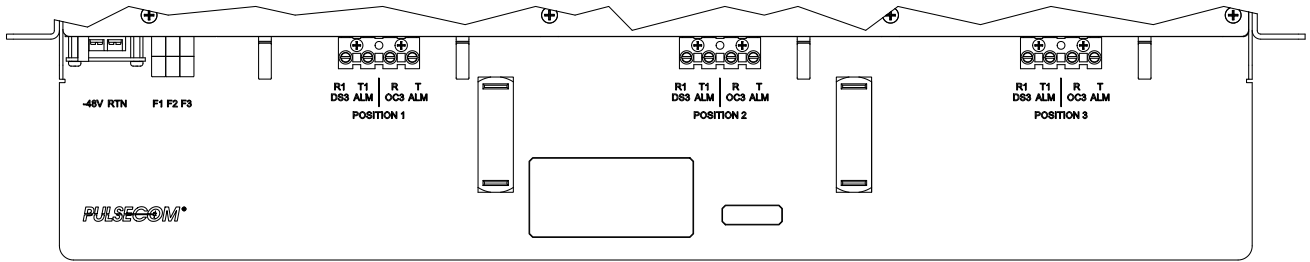
**Procedure 1. Mounting the 3O3D3-23L2A in a Rack**

STEP	ACTION
1	Pulsecom supplies four #12-24 x 1/2" screws for installing the mounting in racks with corresponding holes. Otherwise, the installer will need to supply four binder-head screws of the appropriate size to fit the equipment rack mounting holes.
2	Hold the mounting in the equipment rack in the desired position.  <b>NOTE</b> <i>It is recommended that one inch above and below the mounting be left unused for heat dissipation.</i>
3	Line up any two holes in the shelf with holes in the equipment rack.
4	Insert the screws through the shelf mounting holes and into the equipment rack holes.
5	Tighten the screws.

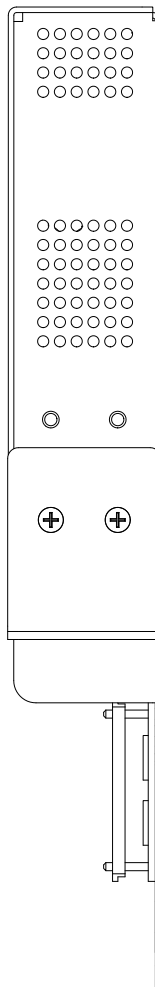


**A. Front View**

**Figure 2. Mounting Views**



**B. Top View**

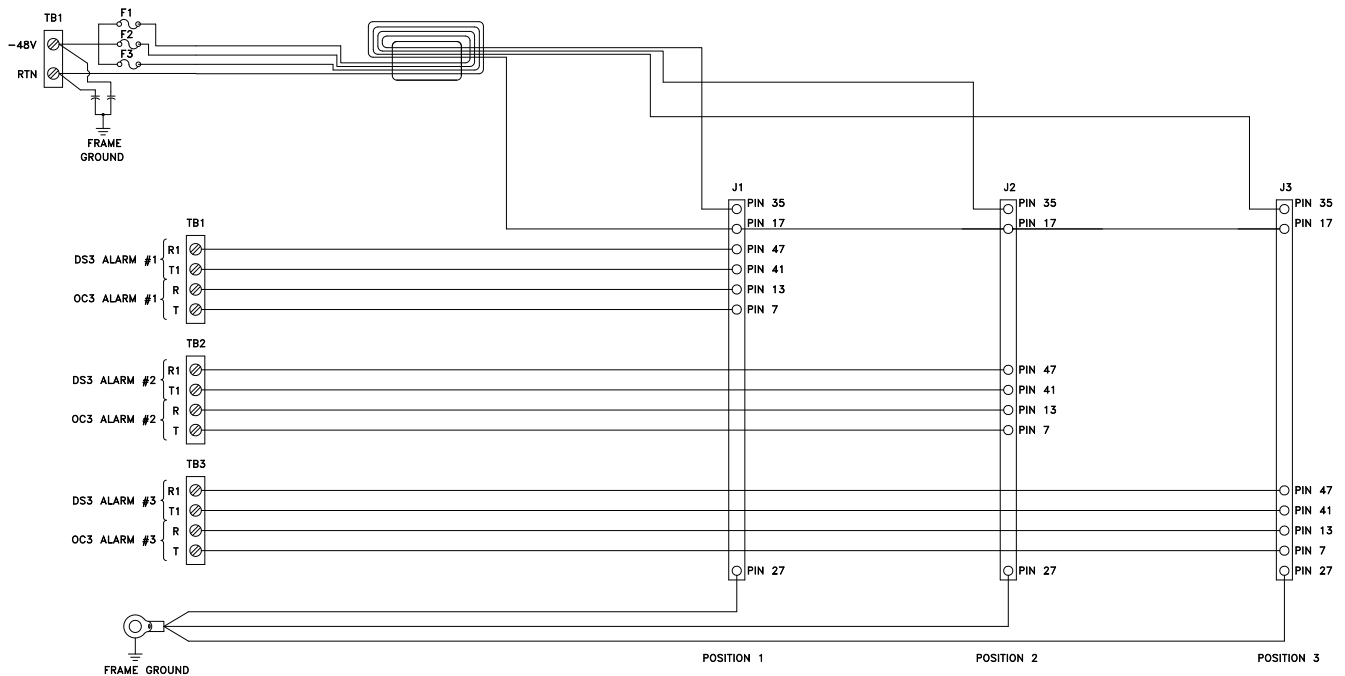


**C. Side View**

**Figure 2. Mounting Views (Continued)**

**Procedure 2. Making Power, Ground, and Alarm Connections**

STEP	ACTION
1	Ensure that the 3O3D3-23L2A fuses are installed and that power is <b>not</b> applied to the wires that will be used to connect -48V and RTN leads to the mounting.
2	Connect frame ground to the frame ground stud using included lug and hardware. Wire size 10 AWG is recommended (12 AWG minimum, 10 AWG maximum).
3	Connect -48 VDC supply return to the RTN terminal. Wire size 22 AWG is recommended (22 AWG minimum, 14 AWG maximum).
4	Connect -48 VDC power source to the -48V terminal. Wire size 22 AWG is recommended (22 AWG minimum, 14 AWG maximum).
5	Make connections to the OC3 ALM terminals R and T for POSITION 1, POSITION 2, and/or POSITION 3, as required. Wire size 22 AWG is recommended (22 AWG minimum, 12 AWG maximum). See Figure 3 for wiring details.
6	Make connections to the DS3 ALM terminals R1 and T1 for POSITION 1, POSITION 2, and/or POSITION 3, as required. Wire size 22 AWG is recommended (22 AWG minimum, 12 AWG maximum). See Figure 3.
7	Apply power.



**Figure 3. 3O3D3-23L2A Wiring Diagram**

### 3. SPECIFICATIONS

Table 2 lists the electrical and physical characteristics of the mounting.

**Table 2. 3O3D3-23L2A Specifications**

Description	Specification
<b>A. Power Requirement</b>	
Input Power	
a) Maximum current, -48V supply	450 milliamperes (150 mA per card)
b) Voltage range	-42 to -57 volts
<b>B. Environmental</b>	
Temperature Range, Operating and Storage	-40° to 65°C
Relative Humidity, No Condensation	10% minimum to 95% maximum
Size (height x width x depth)	1.75 x 23 x 11 inches
Weight, Approximate	3 pounds

### 4. MAINTENANCE

No routine maintenance is required.

To obtain replacement fuses, order standard GMT 0.5A fuses or Pulsecom part number 003337-0050.

### 5. CUSTOMER SERVICE

Direct questions concerning the operation of the mounting to Pulsecom Technical Support. Obtain repair services by returning the defective mounting to the Pulsecom Repair Department.

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