

TRACER - RAPID PROTOTYPING

FULLY FUNCTIONAL, FULLY CUSTOMIZABLE PROTOTYPES - **FAST**

PDS - 316



Introducing Amphenol's newest innovation – TRACER Rapid Prototyping

Achieve any pin-out you can imagine – without sacrificing performance or lead time. Thanks to Amphenol's revolutionary insulator technology, we can rapidly produce connectors in any contact configuration and get you fully functional sample pieces within a week. See page 2 for instructions on how to use the **Tracer Pattern Design Tool**.

MIL-DTL-38999 • REVERSE-BAYONET GT • MIL-DTL-5015 • 2M Micro38999 • And more!

FOR NEW DESIGN PROTOTYPING:

- PC boards with cramped layouts that have difficulty routing traces out of traditionally concentric MIL-STD-1560 insert layouts
- Applications that need additional insulation between their power and signal wiring
- Customers who want to avoid using sealing plugs in unused cavities
- Customers who need a path to production that avoids long-lead tooling



FEATURES AND BENEFITS:

For Board Designers:

- Flexible trace routing for board layer reduction
- Place your board through-holes anywhere for easy trace routing
- Mount board level components under circular connectors

For Everyone:

- Fully customizable pin-outs
- Samples available in **10 days or less***
- Can offer variable levels of sealing and environmental ingress protection
- Offers a bridge to full-rate production

*Connector styles & classes limited if metal housings are required. Composite housings in any configuration also available at the cost of some environmental performance. Contact factory for details.

TRACER PATTERN DESIGN TOOL

USER GUIDE

The **Tracer Pattern Design Tool** will allow users to access 3D models designed to provide visualization of geometries for inserts and contacts, as well as electrical spacing for contacts in our 38999 Series III connectors.

USERS WILL BE ABLE TO:

- Design Custom Insert Arrangements without the need for an engineer
- Combine these models with their own assemblies to check fit
- Determine connector spacing
- Locate mounting holes



**Click or Scan for more information
and Tracer Pattern Design Tool**

DIRECTIONS:

1. Download **Tracer Pattern Design Tool**
2. Open Zip Folder and Extract contents then save them in a marked folder on your Desktop.
3. Open parametric program.
4. Drag and drop .STP files into your parametric software.
5. Each component should be saved as a .PRT file.

NOTE: There will be a few examples provided of full Insert Arrangements. These should be saved as .ASM files.

6. When the file opens, the 3D model will be visible. Save the file with the Part Number that it came with.
7. Use the extruded quadrant markers to create new datum planes for assembly and location purposes.
NOTE: A .STP file erases all dimensions, datum planes, etc. and leaves it as a simple 3D model. The Inserts and Contacts have been designed with extruded quadrant markers to allow for the creation of new datum planes which help with assembly.
8. Place the contact cylinders on the face of the insert cylinders making sure that nothing overlaps.