Interplex’s CAP-LOC™ System is a solderless mounting system for electrolytic capacitors that eliminates the secondary processes of soldering, adhesives, or clamps commonly used to make the electrical and mechanical connections to PCB’s. This capacitor mounting system is designed to withstand the rigors of automotive applications and other mobility type products.

**Interplex CAP-LOC™ System Features:**
- Completely solderless interconnection system
- Proven 0.8mm press-fits for superior retention and electrical conductivity
- Accommodates diameter and length tolerances of capacitor
- High force mechanical capacitor clamp (low mass plastic)
- High normal force electrical connection to capacitor leads
- Minimal stress relaxation on spring contact
- Minimal lead deformation or coating damage
- No conductive components touching capacitor body
- 4-sided capture of capacitor leads
- Designed for 18mm Ø capacitor body
- Easy assembly system

**Open Back Design**
- Accommodates various capacitor lengths
- Provides visibility of polarity markings
- Length tolerance compliant
- Center of gravity within plastic (40mm Cap)

PCB installation forces applied to housing, not to capacitor

Optional PCB standoff height increase via long press-fit stampings

Compliant Lid

4-sided capture of capacitor leads

Solderless Capacitor Mount

The Interplex CAP-LOC™ System

Interplex Industries, Inc.

Automotive • Industrial • Medical • Military • Telecom

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Rev.A
Interplex CAP-LOC™ System

Powertrain Control
- Engine & Transmission
- Battery Management
- DC Converters-Inverters
- Cooling Fans
- Water Pumps

Safety Control
- Airbag Controls
- Electronic Braking
- HID Lamps

Convenience Controls
- AC/Ventilation
- Small Motor Drives
- Electronic Steering

Applications

Performance Specifications:
- Maximum operating temperature: 125 °C
- Contact resistance: 1 mΩ max from capacitor lead to PCB
- PCB retention force: 250N typical (Y-direction)
- Capacitor retention force: 125N typical (Z-direction)
- 3Kg normal force contact beam to capacitor leads

Ref. Dimensional: See data sheet IPX15108 for full product outline

For PCB footprint and hole construction see data sheet IPX15108