

# DA Tunnel Series, DA-033-12-02 Thermoelectric Assembly

# Innovative **Technology** for a **Connected** World



# TUNNEL SERIES DIRECT-TO-AIR THERMOELECTRIC ASSEMBLY

The DA Tunnel Series is a Direct-to-Air thermoelectric assembly (TEA) that minimizes the number of airflow paths required to operate. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed and dissipated through a high density heat exchanger equipped with an air ducted shroud and a brand name fan. The thermoelectric modules are custom designed to achieve a high coefficient of performance (COP) to minimize power consumption. Custom configurations are available, however, MOQ applies.

### FEATURES **V**ROHS

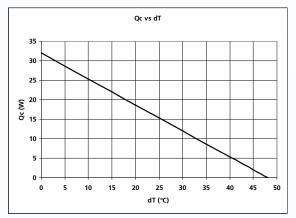
- Tunnel Series compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

### **APPLICATIONS**

- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- Industrial instrumentation
- Food and beverage cooling

Specifications	
Cooling Power Qcmax (W)	32.0
Running Current (A)	3.1
Startup Current (A)	3.5
Nominal Voltage (V)	12
Max Voltage (V)	14.7
Power Input (W)	37.2
Operating Temperature (°C)	-10 to 45
Weight (kg)	0.54
MTBF (fans – hrs)	40,000
Performance Tolerance	±10%

# **PERFORMANCE CURVE**



# global solutions: local support...

Americas: +1.888.246.9050 Europe: +46.31.704.67.57 Asia: +86.755.2714.1166

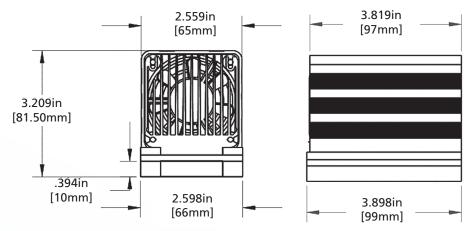
CLV-customerservice@lairdtech.com www.lairdtech.com/thermal



# DA Tunnel Series, DA-033-12-02 Thermoelectric Assembly

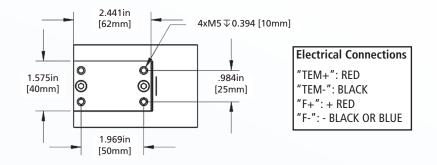
Innovative **Technology** for a **Connected** World

### **ISOMETRIC DRAWINGS**



# **MOUNTING HOLE LOCATION**

### WIRING SCHEMATIC



### **NOTES**

Thermal grease included. For indoor use only.

#### THR-DS-DA-033-12-02 1109

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies materials or subject to change without notice. Responsibility for the use and the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies mas and Conditions of sale in effect from time to time, a corp of which will be furnished upon request. © Copyright 2009 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. and Riflate company thereof. Other product or service names may be the property of third uparties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.