Laird TECHNOLOGIES

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

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

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 RoHS

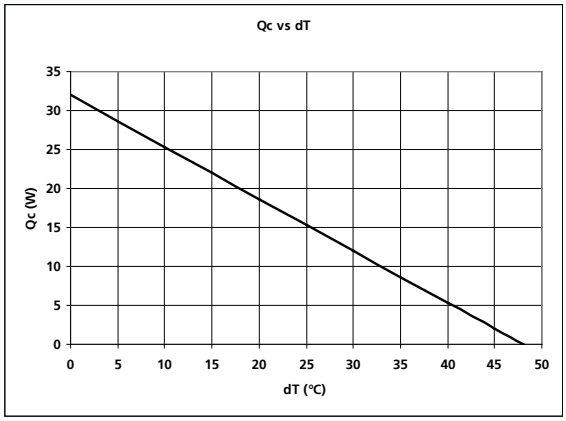
- Tunnel Series compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

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



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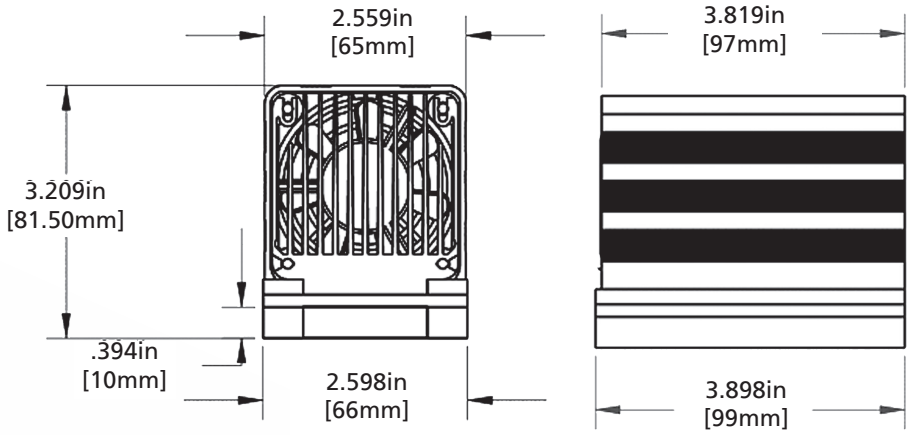
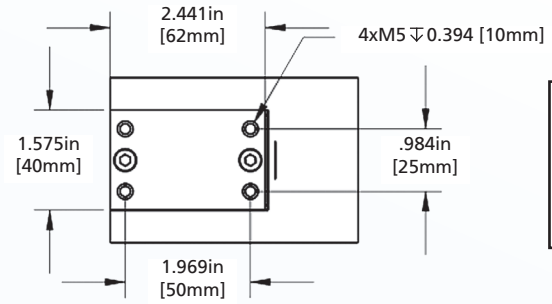
ISOMETRIC DRAWINGS



MOUNTING HOLE LOCATION



WIRING SCHEMATIC

Electrical Connections

"TEM+": RED
"TEM-": BLACK
"F+": + RED
"F-": - BLACK OR BLUE

NOTES

Thermal grease included. For indoor use only.