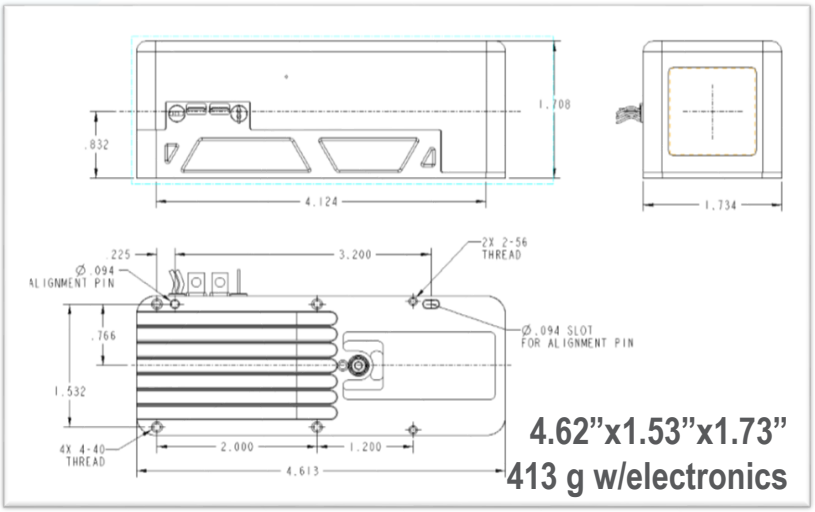
AIRTRAC®-LD Laser Designator



AIRTRAC-LD with Beam Expander 110160

Product Description

Areté’s AIRTRAC-LD Laser Designator is a ruggedized, high-shock, laser with >50 mJ pulse energy. Full NATO STANAG 3733 capability in a very compact, light weight and low power configuration. The athermal design provides high laser pulse energy over the full MIL-SPEC temperature range with low beam divergence and a full system weighing less than 1 lb. AIRTRAC-LD has established a new standard in size for lasers of this class.

Key Features

- Compact efficient athermal laser resonator
- Solid state technology for increased efficiency and long life performance
- High energy with low beam divergence
- No significant warm up time
- Reduced heat-load: conduction or air cooled
- Continuous operation
- Shock & vibration hardened

OEM Compatible Integration

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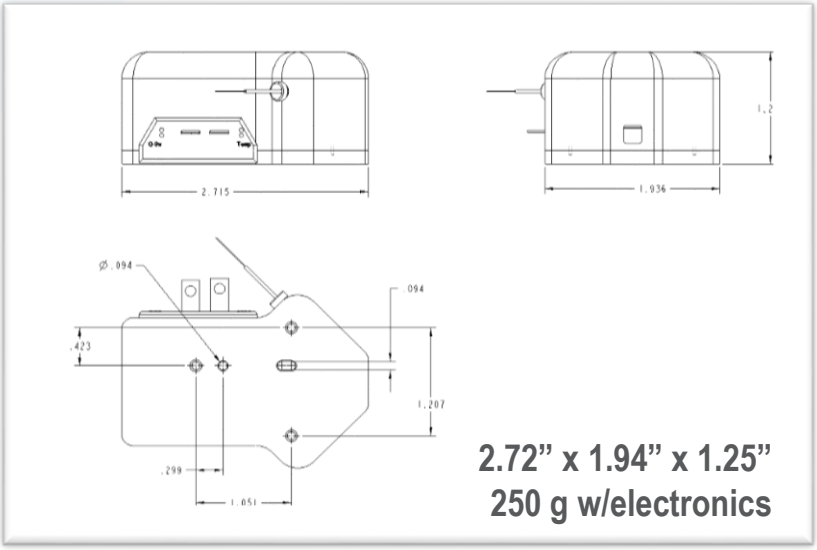
AIRTRAC®-LD Laser Designator

AIRTRAC Standard Resonator 110140



Parameter	Value	Comments
Weight	250 g	110140 AIRTRAC-LD resonator with Electronics
Wavelength	1.06 um	
Output Energy	>50 mJ	
Pulse Width	10-25 ns	
Pulse Codes	STANAG 3733 I&II	
Beam Divergence	<500 urad	Contact Arete directly for telescope options
Beam Winder (Jitter)	≤50 urad	< 1/10 beam divergence
Max Rep Rate	21 Hz	
Min Rep Rate	7 Hz	
Pulse Energy Stability	<5% typ	
Missing Pulses	<2 in 120 s	
Secondary Pulses	None	
Power (Voltage)	18-33 VDC	
Average Standby/Arm power	4 W	
Average Power Draw (total)	<30W	< 25 W for 50 mJ at 20 Hz for most operation
Peak Current	<3.0 A	
Initialization time	<5 s	Power on to Standby
Arm Time	<100 ms	Standby to Arm
Laser start up exception	<1 s	
Timing jitter	<10 ns	
Hot Operation	+70 C	SW Shutdown Occurs @ 71 C
Cold Storage	-46 C	
Cold Operation	-40 C	
Operating Altitude	≤15,000 ft	
Non-Operating Altitude	≤25,000 ft	

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