Areté

AIRTRAC®–E

Arete's AIRTRAC–E is a ruggedized laser with >30mJ pulse energy. The AIRTRAC–E provides key laser pulse energy and pulse width capabilities over the full MIL-SPEC temperature range. The condensed size and full system weighing less than 220 grams establishes the AIRTRAC–E as a new low weight standard for lasers of this class.

Key Features

- Compact efficient athermal laser resonator
- Low power
- Lightweight laser with key pulse energy and pulse width capabilities
- Patented technology for increased efficiency and long life performance
- Reduced heat load
- No significant warm-up time
- Capable of continuous operation
- Fully sealed laser cavity

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Parameter	Range			Comments
	Min	Typical	Max	
Weight		220 g		AIRTRAC–E with Electronics
Wavelength		1.064 um		
Output Energy per Pulse		> 30mJ		
Pulse Width		10 ns to 25 ns		
Beam Divergence		400 urad to 600 urad		With 3x beam expander. Other beam expanders are available
Beam Jitter		< 50 urad		With 3x beam expander. Other options available
Rep Rates		0 Hz to 25 Hz		
Pulse to Pulse Energy Stability		< 15% typ		
Secondary Pulses		None		
Average Standby/Arm Power		< 5 W		
Average Power Draw (total)	< 24 W	< 30 W	< 40 W	Values taken at 24 VDC and across pulse frequencies of 7Hz to 20Hz.
Peak Current	3.5 A	3.8 A	4.5 A	Values taken at 24 VDC and across pulse frequencies of 7Hz to 20Hz.
Operational Temp Range		-10C to +70C		Some variation in energy over this temperature range
Storage Temp Range		-40C to +85C		

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