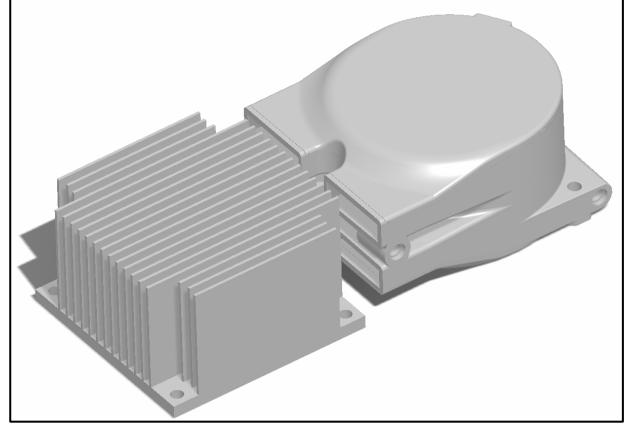


Dual Nozzle Cooler with Heatsink

Features/Benefits

- Thermal loads from 16 to nearly 40W
- Low acoustic sound sensitive applications
- Ultra-low power
- Operating temperature -40°C to +85°C
- 50,000 hours L10 life at 85°C



Overview

NtelliJet™ fan-less air moving technology provides the most reliable active cooling solution available today. The Gen2 Dual Nozzle NtelliJet™ cooling modules have been developed to be integrated with a wide array of thermal needs.

Specifications

Parameter	Os-a ¹²³	SPL (dBA) ⁴	TDP ⁵ (W)	Power W (5V) ⁶
PWM Variable Control Cooler	2.5-1.0	20-38	16-40	1.2
High Performance, 40W Cooler	1.0	38	40	1.0
Standard 25W Cooler	1.6	24	25	0.5
Silent, 16W Cooler	2.0	20	16	0.4

Parameter – All Modules	Min	Typ	Max	Units	Conditions
Voltage ⁶	4.5		5.5	VDC	150mV max ripple p-p
Operating Temperature	-40		85	°C	
Storage Temperature	-40		85	°C	
Storage Altitude			10K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			135	gr	With heat sink
Agency Certifications					CE, UL , FCC Part 15 Class B, RoHS
Reliability ⁷			50,000	hrs	L10 @ 85°C

¹ In fully open air or well vented fixtures from 0C to 85C in full on condition. Thermal data is given as a reference heatsink design. Actual performance may vary by application and heatsink design.

² Thermal resistance is measured from the bottom middle of the heat sink, with a heat source at least 12cm², to ambient air measured at the inlet to the NtelliJet™.

³ NtelliJet™ is suitable for enclosed fixtures but thermal performance will vary depending on the enclosure

⁴ Per ISO 7779

⁵ Total Design Power based on a 40°C delta in temperature

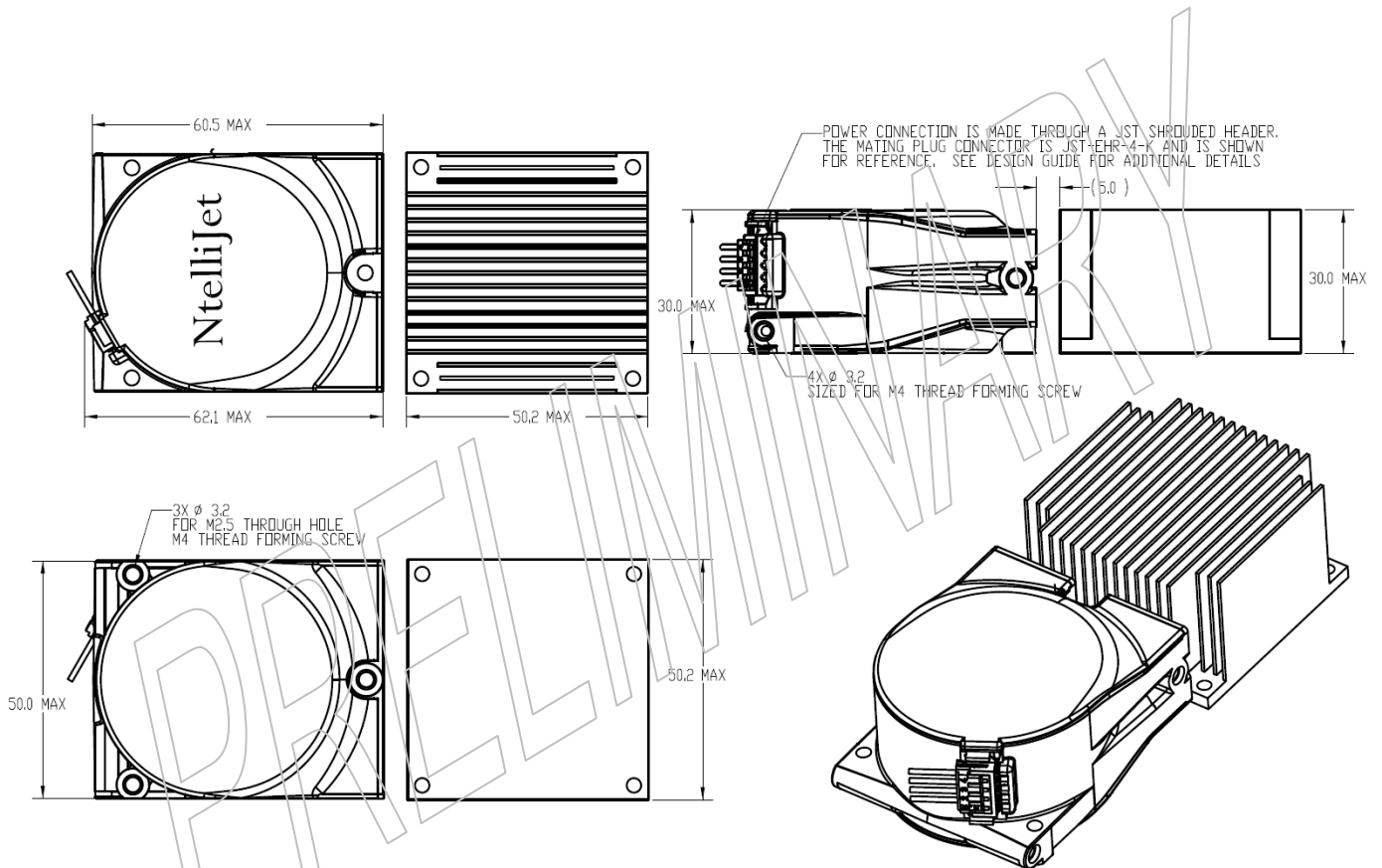
⁶ See JARO Design Guide for detailed power requirements

⁷ L10 is the life for which 90% of a group of modules will meet or exceed the specification



We Keep the World Cool™

Mechanical drawing



Part Numbers

Dual Nozzle Chip Cooler Model Number	Description
NJ-DN305XB	Ultra High Performance – 5VDC – with PWM
NJ-DN30HB	High Performance – 5VDC – with PWM
NJ-DN312XB	Ultra High Performance – 12VDC – with PWM
NJ-DN312HB	High Performance – 5VDC – with PWM
NJ-DN30AL	Heatsink – Black Anodized
WHFL-2150	Wire Harness, 2 wires, 150 mm length, Flying Leads
WHFL-3150	Wire Harness, 3 wires, 150 mm length, Flying Leads
WHFL-4150	Wire Harness, 4 wires, 150 mm length, Flying Leads

JARO reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or applications. For additional information, please contact JARO directly.