

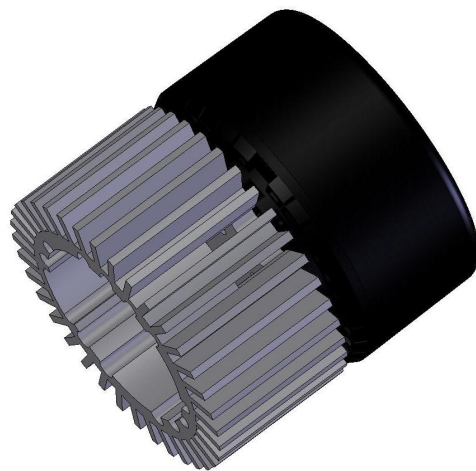
# SynJet™ MR16 LED Cooler w/HS

## FEATURES/BENEFITS

- Cools 15-20W
- < 25 dBA of sound
- Meets MR-16 form factor
- 300k hours L10 life at 60C

Preliminary Specification  
Rev 1.1  
P/N SJLES-5012050-001

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## Overview

SynJet™ fan-less air moving technology provides the most reliable active cooling solution available today. The SJLES-5012050-001 is a SynJet™ cooling module developed by Nuventix Inc for cooling a 15W heat source, with a 35C delta T, in an LED lighting application. It is designed to fit into the socket of an MR-16 bulb.

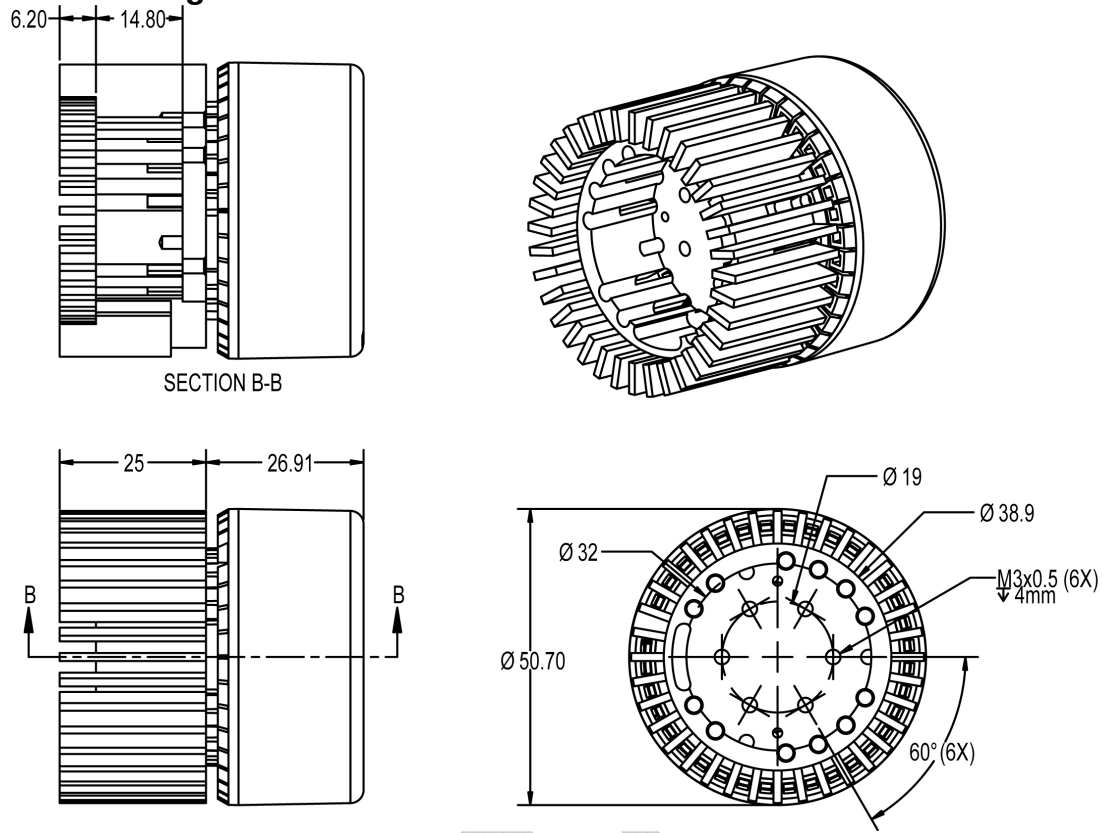
## Specifications

Parameter	Min	Typ	Max	Units	Conditions
$\Theta_{s-a}$ <sup>1</sup>			2.33	°C/W	In free air
Sound Pressure Level <sup>2</sup>			25	dBA	At 1 meter
Voltage	4.5		5.5	V	150mV max ripple p-p
Current			150	mA	
Power Lead					Pin 1: ⊖ Black wire Pin 2: ⊕ Red wire
Operating Temperature	0		60	°C	
Storage Temperature	-40		85	°C	
Operational Altitude			3K	m	Above Sea Level
Storage Altitude			10K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			120	gr	
Agency Certifications					CE, UL , RoHS
Reliability			250K	hrs	L10 @ 60C

<sup>1</sup> Thermal resistance is measured from the middle bottom of the heatsink to ambient air measured at the inlet to the SynJet.

<sup>2</sup> Per ISO 7779

## Mechanical drawing



**Figure 1: Mechanical Dimension Drawing. All dimensions in mm.**

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