

SynJet[®] Low Profile Cooler

SynJet cooling technology provides the most reliable thermal management solution available. This LED cooler has been developed by Nuventix, for low profile cooling up to 19W of thermal power tracklight, spotlight, and recessed downlight modules.

- Only 15mm diameter tall small designs
- Cools up to 19W
- 100K Hours Lifetime
- Energy Efficient



Specifications

Parameter	Θ_{s-a} ^{1,2,3}	SPL (dBA) ⁴	TDP ⁵ (W)	Power W (5V) ⁶
Low Profile – High Performance, 19W Cooler	2.4	28	19	1.0
Low Profile – Standard, 15W Cooler	2.9	25	15	0.9
Low Profile – Silent, 10W Cooler	4.1	18	10	0.6

Parameter – All Modules	Min	Typ	Max	Units	Conditions
Voltage ⁶	4.75		5.25	VDC	150mV max ripple p-p
Power Lead					Power (Red wire) Ground (Black wire)
Operating Temperature	0		60	°C	
Storage Temperature	-40		75	°C	
Storage Altitude			15K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			125	gr	
Agency Certifications					CE, UL, RoHS
Reliability ⁷			100K	hrs	L10 @ 60°C

¹ In fully open air or well vented fixtures from 25C to 60C in full on condition with Cu heatsink. Thermal data is given as a reference only. Actual performance may vary by application.

² Thermal resistance is measured from the bottom middle of the heat sink to ambient air measured at the inlet to the SynJet.

³ SynJet Cooler is suitable for enclosed fixtures but thermal performance will vary depending on the enclosure.

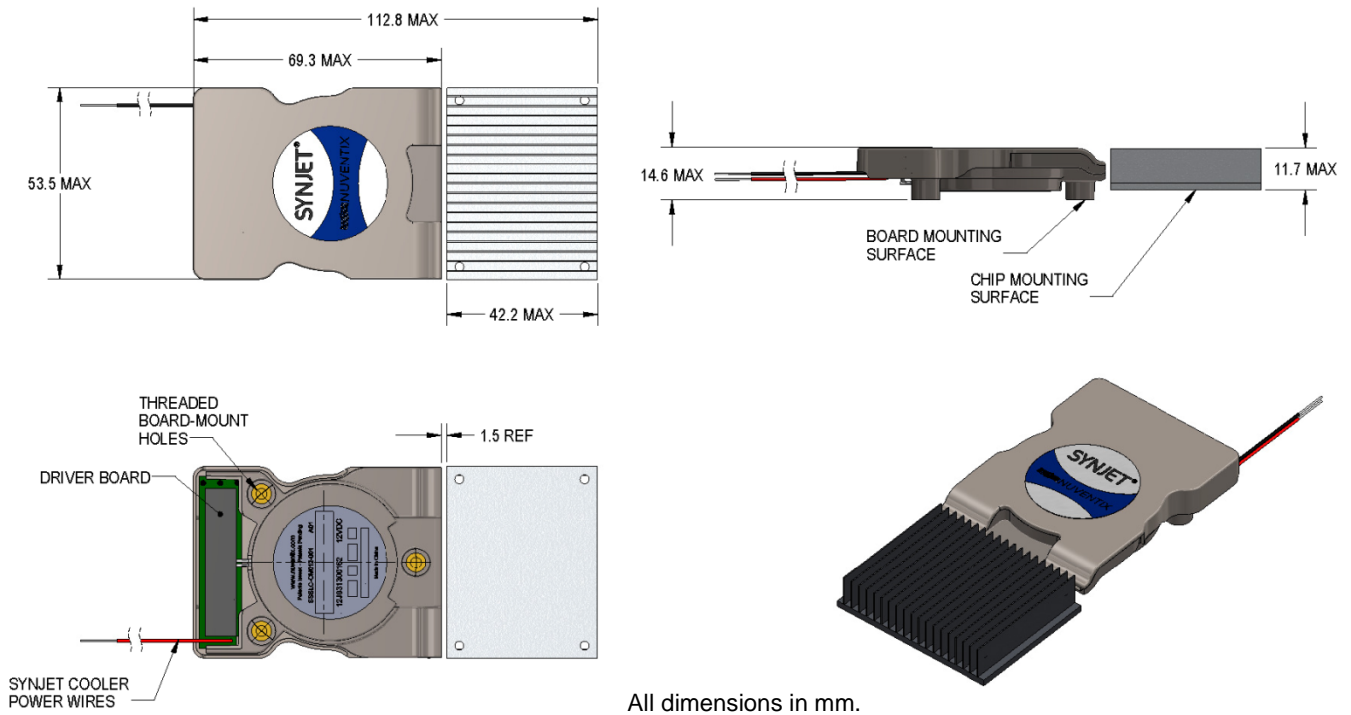
⁴ Per ISO 7779

⁵ Total Design Power based on a 40°C delta in temperature with a heat source at least 15 cm², to ambient air measured at the inlet to the SynJet.

⁶ See Nuventix Design Guide for detailed power requirements.

⁷ L10 is the life for which 90% of a group of modules will exceed the specified life.

Mechanical drawing



Part Numbers

Low Profile Cooler	Document revision: 2.5
SSCCS-CM005-008	SynJet, Low Profile Chip Cooler 5v – High Performance, 19W Cooler
SSCCS-CM005-001	SynJet, Low Profile Chip Cooler 5v – Standard, 15W Cooler
SSCCS-CM005-010	SynJet, Low Profile Chip Cooler 5v – Silent, 10W Cooler
HSCCS-CALCL-001	Low Profile Chip Cooler Heatsink, Al

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