

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SynJet® Twist Module Cooler 40W

SynJet cooling technology provides the most reliable thermal management solution available. This LED cooler has been developed by Aavid, for cooling the Philips Fortimo Twistable LED TDLM.

- Cools up to 40 W⁴
- L10 of 100K Hours at 60°C
- **Energy Efficient**

- 5 vr Warranty
- Small Form Factor
- **Quiet Acoustics**



Specifications¹

Thermal & Acoustic

SynJet Setting ²	Θs-a ³	TDP ⁴ (W)	SPL (dBA) ⁵	Wire Connections	
High Performance	1.00	40	28	Red to +VDC Black & Blue to Ground	+VDC GND
Standard	1.25	32	22	Red to +VDC Black only to Ground	+VDC GND
Silent	1.55	26	18	Red to +VDC Black & Purple to Ground	+VDC GND
PWM at 100% dutycycle	1.00	40	28	Red to +VDC Black only to Ground Blue to PWMSignal	+VDC GND PWM
Heatsink Only	2.5	16	N/A	N/A N/A	

Electrical

2	Voltag	Current (mA) ⁶			Voltag	Current (mA) ⁶				
SynJet Setting ²	e (VDC)	lmin	lavg	lpeak	Pavg (mW)	e (VDC)	lmin	lavg	Ipeak	Pavg (mW)
High Performance	-	20	140	280	700	12	10	71	142	850
Standard			70	140	350			42	84	500
Silent	3	20	60	120	300	12	10	38	76	450
PWM at 100% duty cycle			140	280	700			71	142	850

Environmental

All Settings	Min Max		Units	Conditions	
Operating Temperature	-40	70	°C	Air temperature surrounding cooler	
Storage Temperature	-50	85	°C	Air temperature surrounding cooler	
Storage Altitude		15K	m	Above sea level	
Operating Relative Humidity	5	95	%	Non-condensing	
Weight		345	g	SynJet with heat sink	
Reliability		100K	hrs	L10 @ 60°C	
Regulatory Compliance				RoHS, UL, FCC Part 15 Class B, CE	

¹ All values are typical at 25°C unless otherwise stated.

⁶ The SynJet has a time varying current. The current waveform is sinusoidal and the average current (lavg) is used to calculate the average power consumption



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² The Level Select model should be used for discrete performance settings. Follow the instructions in the Product Design Guide for adjusting settings.

³ Thermal resistance values are given as reference only and are measured in free air without airflow obstructions. Thermal resistance is measured from the bottom middle of the heat sink to ambient air measured at the inlet to the SynJet, with a heat source at least 15cm2 using the 40W reference heat sink. Actual thermal performance may vary by application and final product design should be tested to assure proper thermal performance.

Thermal Design Power is based on a 40°C temperature rise of heat sink mounting surface above ambient temperature around cooler.

⁵ Sound Pressure Level is measured at 1 meter distance per ISO 7779.





(Pavg) at nominal input voltage (VDC). See the Electrical section in the Product Design Guide for a detailed explanation.

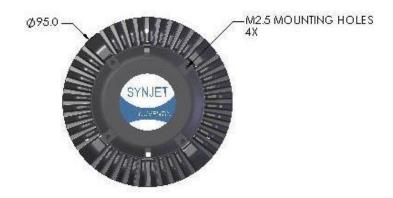


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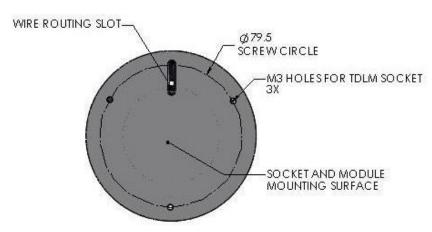
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Mechanical SynJet CoolingSolution



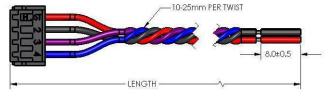






All dimensions are nominal and in mm unless otherwise stated. See product drawings for more detail.

SynJet Wire Harness



Connector Pinout

Pin	Wire Color	Symbol	Description
1	Red	+VDC	5 V or 12 V depending on model
2	Black	GND	Ground
3	Purple	CTRL2	Input for Level Select model Status signal for PWM model
4	Blue	CTRL1	Input for Level Select model PWM input for PWM model

IMPORTANT: SynJets should be completely wired to the power supply before the power supply is energized. The power supply should be turned off before the SynJet Cooler is disconnected. SynJet Coolers are not designed for "hot swap" or "hot plug" applications.

Part Numbers

Part Number	Description	Notes
SPARS-CM005-002	SynJet, ZFlow 65 Cooler, Level Select, 5V, Black	Hard wired performance settings
SPARS-CM005-001	SynJet, ZFlow 65 Cooler, PWM, 5V, Black	Use PWM input to control performance setting
SPARS-CM012-002	SynJet, ZFlow 65 Cooler, Level Select, 12V, Black	Hard wired performance settings
SPARS-CM012-001	SynJet, ZFlow 65 Cooler, PWM, 12V, Black	Use PWM input to control performance setting
HP30S-CALBL-002	Heatsink, 40W, Downlight Module 95, Philips Twistable, Zhaga B2, Black	Contact sales for other heatsink options
WALLS-C4150-001	Wire Harness, 4-Wire, 150 mm Length	Contact sales for other wire harness options
WALLS-C4600-001	Wire Harness, 4-Wire, 600 mm Length	Contact sales for other wire harness options

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