



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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Active Cooling Solution is **4x** more efficient at *Thermal Convection* than Passive!

■ Comparison of Active / Passive Cooling Solution (LED Power 20W, 2000lm)

Active Cooling (LA002-003A99DN)		Passive Cooling (RA002-002999DN)
Tc=45°C Win	→ Tcase Temperature reduce 6°C	Tc=51°C
85x85x35.5 mm Win	→ Volume Reduce over 62%	φ 170x30 mm
153 g Win	→ Weight Reduce over 73%	570 g
Aluminum Less material = less cost Win	→ Cost Down more than 60%	Aluminum Large size = high cost

■ Advantages



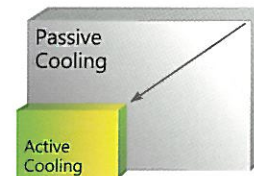
High Lumen

MR16 up to 520lm (13W)
A19 up to 1300lm (20W)
Spot light up to 5000lm (75W)



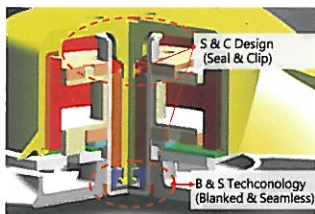
Meet MR16 / A19 standard size

Sunon's active cooling solution is four times more effective than passive cooling. It has developed the best high lumen and the space cooling requirement for the MR16 and A19.



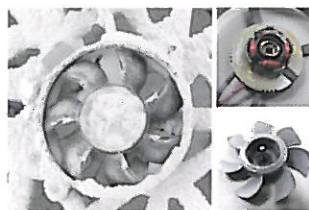
Lower Cost

Active cooling can be significantly reduced size, weight, metallic materials use, less cost up to 60%.



Long Life

DR Maglev motor fan with better dust-resistance, super silence advantages, and cooling module life of up to 70,000 hours (60° C). Warranty may be extended to 5 years on demand.



Dust-proof (*) The dust settlement is equal to a 5-year and 2-month dust fall

After a test of 72 hours operation according to the IEC60529 dust test standard (*), the results show that the Sunon fan motor functioned normally. When the fan was disassembled, no dust was found inside the fan motor or along the fan axis.



Super Silence

Sunon has brought acoustic engineering to our fan products so that they have superior sound quality, even below the 20 phon curve. As a result, the use of Sunon products can create a more agreeable and comfortable environment.

■ Features

- Sunon LED cooling modules have been adopted by many international LED module manufacturers, including Philips, Osram, Vossloh, Xicato, Tridonic, GE, and others.
- Sunon products are widely applied to LED bulb lamp (A19), MR16, down light, and spot light.
- Over 300 patents related to LED lighting cooling around the world.
- Successfully solves LED light decline, color rolling, overheat, and other problems.
- Active cooling solution allows lamps to be more lightweight and compact.
- Bearings designed with patented DR MagLev motors can effectively extend motor life.

The use of Sunon's Super Silence fan design results in a sound lower than can be detected by the human ear (below the 20 phon curve).