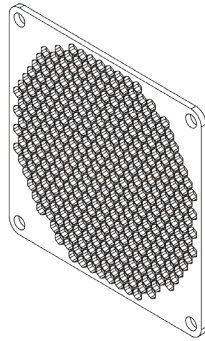


FEATURES

- Improves EMI integrity
- Increased air flow
- 80mm, 120mm and custom sizes available
- Industry-standard fan geometry of 2, 3, and 5mm thickness
- Prototypes available now

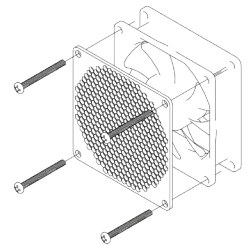
MICROVENT FAN GUARD

DATASHEET



Atrenne's fan guards (patent pending) product line are designed with Atrenne's advanced MicroVent® Technology. This product line addresses the increasing problem in the electronics industry of electronic noise (EMI) escaping from the cooling path of complex mechanical enclosures. Atrenne's MicroVent technology provides the most open area for air flow providing improved cooling of electronic components while improving the EMI integrity of the system. Each guard is designed around industry standard fan geometry in 2, 3 & 5 mm thickness to support each customer's specific application. Available in standard 80mm and 120mm sizes, as well as custom sizes, these fan guards easily attach to any embedded computer fan with machine screws for little to no down-time.

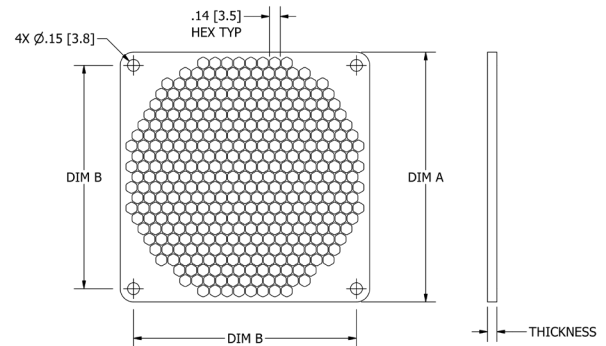
Application specific EMI testing using MicroVent has been done up to 40 Gig providing excellent results. Along with the positive EMI results we have air flow testing on our MicroVent fan guards versus standard off the shelf industry solutions. Atrenne has also conducted air flow test on MicroVent versus industry standard EMI gasket solutions currently used in the industry.



(1) MicroVent is a registered trademark of Atrenne, a Celestica company, LLC and is registered in the United States Patent and Trademark Office
 (2) MicroVent Fan Guards are patent pending.

FAN SIZE	DIM A	DIM B	THICKNESS	PART #
80	3.15 [80]	2.81 [71.5]	.08 [2]	XF680-0001
80	3.15 [80]	2.81 [71.5]	.12 [3]	XF680-0002
80	3.15 [80]	2.81 [71.5]	.20 [5]	XF680-0003
120	4.72 [120]	4.13 [105]	.08 [2]	XF680-0004
120	4.72 [120]	4.13 [105]	.12 [3]	XF680-0005
120	4.72 [120]	4.13 [105]	.20 [5]	XF680-0006

Other sizes and custom vent configurations available upon request.



MICROVENT FAN GUARD

DATA SHEET

WHAT IS MICROVENT?

MicroVent technology addresses the need for more efficient thermal management in custom, electromechanical enclosures across many industries. The MicroVent pattern incorporated in an extruded or sheet metal front panel design provides additional airflow to the system, for thermal management requirements, while meeting system EMI/RFI requirements.

MicroVent is a sophisticated technology yielding hexagonal apertures with up to 86% open area in thick panel applications. The highly configurable features can be easily oriented to maximize cooling in close proximity to I/O openings for precise targeting of heat generating components, producing an accurate, repeatable, aesthetic, robust and cost effective perforation method.

The advanced MicroVent pattern provides a cosmetic, integrated component in next generation telecommunications, computing and data storage systems that require increased airflow cooling and EMI attenuation.

MicroVent Technology offers measurable performance improvements in airflow, reduced back pressure, and EMI shielding, maintaining structural integrity, and reducing assembly costs. This proven technology is currently being utilized in a wide variety of customer applications and industries, including global Fortune 500 companies.

CONTACT INFORMATION

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COMMON FEATURE DIMENSIONS						
HEX (FLAT)		RADII		WEB		% OPEN
MM	IN	MM	IN	MM	IN	
3.0	0.118	0.8	0.030	0.3	0.013	79.3
3.5	0.138	0.8	0.030	0.3	0.013	82.1
4.0	0.157	0.8	0.030	0.3	0.013	84.2
MATERIAL : ALUMINUM; EXTRUDED SHAPE OR SHEET STOCK						
MATERIAL THICKNESS: 2-3MM OPTIMAL; CONTACT ATRENNE FOR THICKER MATERIAL OPTIONS.						

