

Ultra High Performance BGA Cooling Solutions w/ maxiGRIP™ Attachment



ATS Part#:	ATS-51400R-C1-R0
Description:	maxiFLOW™ maxiGRIP™ HS Assembly- LP, T412, BLACK- ANODIZED
Heat Sink Type:	maxiFLOW
Heat Sink Attachment:	maxiGRIP
Equivalent Part Number:	ATS-51400R-C2-R0

*Image above is for illustration purpose only.

Features & Benefits

- maxiFLOW™ design features a low profile, spread fin array that maximizes surface area for more effective convection (air) cooling
- maxiGRIP™ attachment applies steady, even pressure to the component and does not require holes in the PCB
- Meets Telcordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock and Unpackaged Drop Testing standards
- Comes pre-assembled with high performance thermal interface material
- Designed for low profile components from 1.5 to 2.99mm
- "Keep-Out" Requirements: An "Un-Populated" border zone of 5mm around the component is necessary to facilitate the Installation/Removal of the maxiGRIP™. Please refer to the [maxiGRIP™ Keep-Out Guidelines](#) and [maxiGRIP™ Installation/Removal Instructions](#) for further details.

Thermal Performance

AIR VELOCITY		@200 LFM 1.0 M/S	@300 LFM 1.5 M/S	@400 LFM 2.0 M/S	@500 LFM 2.5 M/S	@600 LFM 3.0 M/S	@700 LFM 3.5 M/S	@800 LFM 4.0 M/S
THERMAL RESISTANCE	Unducted Flow	1.97 °C/W	1.57 °C/W	1.36 °C/W	1.23 °C/W	1.13 °C/W	1.05 °C/W	0.98 °C/W
	Ducted Flow	1.51	n/a	n/a	n/a	n/a	n/a	n/a

Product Detail

Schematic Image	Dimension A	Dimension B	Dimension C	Dimension D	TIM	Finish
	40.0 mm	40.0 mm	19.5 mm	69.1 mm	T412	BLACK- ANODIZED
Notes:						
<ul style="list-style-type: none">Dimension A and B refer to component size.Dimension C is the heat sink height from the bottom of the base to the top of the fin field.ATS-51400R-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint Gobain C675).Thermal performance data are provided for reference only. Actual performance may vary by application.ATS reserves the right to update or change its products without notice to improve the design or performance.ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.Optional maxiGRIP™ Installation/Removal Tool Set P/N: MGT400Contact ATS to learn about custom options available.						

For more information, to find a distributor or to place an order, please contact us at 781-769-2800 (North America), sales@qats.com or www.qats.com.

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