Xicato XTM LES19 (Revisions 0D and Above) Heatsink Compatibility Matrix v.10

0° Angle Maximum Orientation in Free Air
For Design Guidance Only, Actual Performance Will Vary Based on Luminaire Construction

Column current/module headers (left to right):

1. XTM1980XX13 @350mA
2. XTM1980XX13 @500mA
3. XTM1980XX20 @350mA
4. XTM1990XX30 @350mA
5. XTM1995XX13 @350mA
6. XTM1995XX20 @350mA
7. XTM1980XX30 @350mA
8. XTM1990XX20 @350mA
9. XTM1995XX20 @500mA
10. XTM1995XX30 @350mA
11. XTM1980XX13 @700mA
12. XTM1980XX20 @500mA
13. XTM1990XX30 @500mA
14. XTM1995XX13 @500mA
15. XTM1980XX30 @500mA
16. XTM1980XX40 @500mA
17. XTM1980XX50 @500mA
18. XTM1990XX20 @500mA
19. XTM1990XX45 @500mA
20. XTM1995XX20 @700mA
21. XTM1995XX30 @500mA
22. XTM1980XX20 @700mA
23. XTM1990XX30 @700mA
24. XTM1995XX13 @700mA
25. XTM1980XX30 @700mA
26. XTM1980XX40 @700mA
27. XTM1990XX20 @700mA
28. XTM1990XX45 @700mA
29. XTM1980XX50 @700mA
30. XTM1995XX30 @700mA
31. XTM1995XX20 @1050mA
32. XTM1980XX40 @1050mA
33. XTM1990XX30 @1050mA
34. XTM1980XX30 @1050mA
35. XTM1980XX50 @1050mA
36. XTM1990XX45 @1050mA
37. XTM1995XX30 @1050mA
38. XTM1980XX40 @1400mA
39. XTM1980XX50 @1400mA
40. XTM1990XX45 @1400mA

Extruded Solid Core Heatsinks

Color suitability per row (LB = Light Blue, B = Blue, G = Green, Y = Yellow, R = Red); values approximate column-by-column diagonal transitions from readable image:

Part Number	Manufacturer	Dimensions (Diameter x Height)
XSA-298	Mechatronix	(Ø47mm X 30mm)
XSA-215	Mechatronix	(Ø47mm X 50mm)
XSA-380	MingfaTech	(Ø48mm X 50mm)
XSA-216	Mechatronix	(Ø47mm X 80mm)
XSA-381	MingfaTech	(Ø48mm X 80mm)
XSA-299	Mechatronix	(Ø70mm X 30mm)
XSA-68	AVC	(Ø80mm X 30mm)
XSA-212	Mechatronix	(Ø70mm X 50mm)
XSA-307	MingfaTech	(Ø70mm X 50mm)
XSA-300	Mechatronix	(Ø86mm X 30mm)
XSA-213	Mechatronix	(Ø70mm X 80mm)
XSA-308	MingfaTech	(Ø70mm X 80mm)
XSA-301	Mechatronix	(Ø86mm X 50mm)
XSA-382	MingfaTech	(Ø85mm X 50mm)
XSA-69	AVC	(Ø80mm X 90mm)
XSA-97	Mechatronix	(Ø99mm X 50mm)
XSA-383	MingfaTech	(Ø85mm X 80mm)
XSA-302	Mechatronix	(Ø86mm X 80mm)
XSA-309	MingfaTech	(Ø96mm X 50mm)
XSA-303	Mechatronix	(Ø135mm X 30mm)
XSA-384	MingfaTech	(Ø110mm X 50mm)
XSA-310	MingfaTech	(Ø96mm X 80mm)
XSA-98	Mechatronix	(Ø99mm X 80mm)
XSA-312	Mechatronix	(Ø152mm X 20mm)
XSA-311	MingfaTech	(Ø135mm X 40mm)
XSA-386	MingfaTech	(Ø130mm X 40mm)
XSA-385	MingfaTech	(Ø110mm X 80mm)
XSA-305	Mechatronix	(Ø111mm X 80mm)

The matrix cells form a diagonal "staircase": lower-left cells are LIGHT BLUE (best cooling), transitioning rightward/downward through BLUE, GREEN, YELLOW, and RED (not suitable) toward the upper-right (higher-current columns). Larger heatsinks (bottom of list) remain light blue/green across nearly all current columns; smaller heatsinks (top of list) turn red at higher currents.

Legend:

- **LIGHT BLUE:** Suitable for maximum ambient temperatures up to 50°C
- **BLUE:** Suitable for maximum ambient temperatures up to 45°C
- **GREEN:** Suitable for maximum ambient temperatures up to 40°C
- **YELLOW:** Suitable for maximum ambient temperatures up to 35°C
- **RED:** Not suitable for use

Header text color coding:
- Standard & Vibrant (V8) Series (white text)
- Designer Series (green text)
- Artist, Vibrant (V9), & Beauty Series (orange text)

Notes:
- Compatibility shown in the chart is based on free airflow (no blockage) to the heatsink. Blockage or restriction of air will cause temperature rise. This matrix is for guidance only and is based on nominal module thermal performance. Thermal testing in a representative luminaire configuration should always be preformed.
- Thermal performance of the Xicato 80CRI products and Vibrant V80 products is identical for a given lumen package.
- Thermal performance of the Xicato 95CRI products and Vibrant V95 products is identical for a given lumen package.
- "Spacer" refers to XSA-270, XSA-271, or XSA-274. Some heatsinks require the use of a spacer to spread heat as the heatsink's center hole is too large for the XTM to make sufficent thermal contact.
- Contact Xicato for more information, CAD models, or supplier contact info.
- Additional flux packages and heatsinks may be added in the future.

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- XTM1995XX20 @500mA
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- XTM1980XX13 @700mA
- XTM1980XX20 @500mA
- XTM1990XX30 @500mA
- XTM1995XX13 @500mA
- XTM1980XX30 @500mA
- XTM1980XX40 @500mA
- XTM1980XX50 @500mA
- XTM1990XX20 @500mA
- XTM1990XX45 @500mA
- XTM1995XX20 @700mA
- XTM1995XX30 @500mA
- XTM1980XX20 @700mA
- XTM1990XX30 @700mA
- XTM1995XX13 @700mA
- XTM1980XX30 @700mA
- XTM1980XX40 @700mA
- XTM1990XX20 @700mA
- XTM1990XX45 @700mA
- XTM1980XX50 @700mA
- XTM1995XX30 @700mA
- XTM1995XX20 @1050mA
- XTM1980XX40 @1050mA
- XTM1990XX30 @1050mA
- XTM1980XX30 @1050mA
- XTM1980XX50 @1050mA
- XTM1990XX45 @1050mA
- XTM1995XX30 @1050mA
- XTM1980XX40 @1400mA
- XTM1980XX50 @1400mA
- XTM1990XX45 @1400mA

Part Number	Manufacturer	Dimensions (Diameter x Height)
Extruded Centerfeed Heatsinks		
XSA-37	Various	(Ø49mm X 35mm)
XSA-39	Various	(Ø70mm X 40mm)
XSA-38	Various	(Ø70mm X 70mm)
Extruded Centerfeed Heatsinks Requiring a Spacer (See Notes)		
XSA-31	Various	(Ø99mm X 40mm)
XSA-27	Various	(Ø99mm X 70mm)
XSA-28	Various	(Ø134mm X 40mm)
XSA-54	Various	(Ø120mm X 70mm)
Pin Fin Heatsinks		
XSA-60	Mechatronix	(Ø50mm X 30mm)
XSA-316	MingfaTech	(Ø48mm X 30mm)
XSA-61	Mechatronix	(Ø50mm X 50mm)
XSA-319	MingfaTech	(Ø58mm X 30mm)
XSA-317	MingfaTech	(Ø48mm X 50mm)
XSA-63	Mechatronix	(Ø70mm X 30mm)
XSA-62	Mechatronix	(Ø60mm X 50mm)
XSA-217	Mechatronix	(Ø49mm X 60mm)
XSA-318	MingfaTech	(Ø48mm X 68mm)
XSA-321	MingfaTech	(Ø68mm X 30mm)
XSA-320	MingfaTech	(Ø58mm X 50mm)
XSA-66	Mechatronix	(Ø80mm X 30mm)
XSA-64	Mechatronix	(Ø70mm X 50mm)
XSA-65	Mechatronix	(Ø70mm X 60mm)
XSA-325	MingfaTech	(Ø78mm X 30mm)
XSA-322	MingfaTech	(Ø68mm X 50mm)
XSA-67	Mechatronix	(Ø80mm X 50mm)
XSA-326	MingfaTech	(Ø78mm X 50mm)
XSA-219	Mechatronix	(Ø86mm X 68mm)
XSA-327	MingfaTech	(Ø110mm X 50mm)
XSA-96	Mechatronix	(Ø111mm X 80mm)
XSA-328	MingfaTech	(Ø110mm X 80mm)
Heat Pipe Cooling Solutions		
SC-HPK-110	FrigoDynamics	(Ø100mm X 110mm)
Active Fan Cooling Solutions		
XSA-48	ebm-papst	(Ø70mm X 60mm)

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Standard & Vibrant (V8) Series
Designer Series
Artist, Vibrant (V9), & Beauty Series