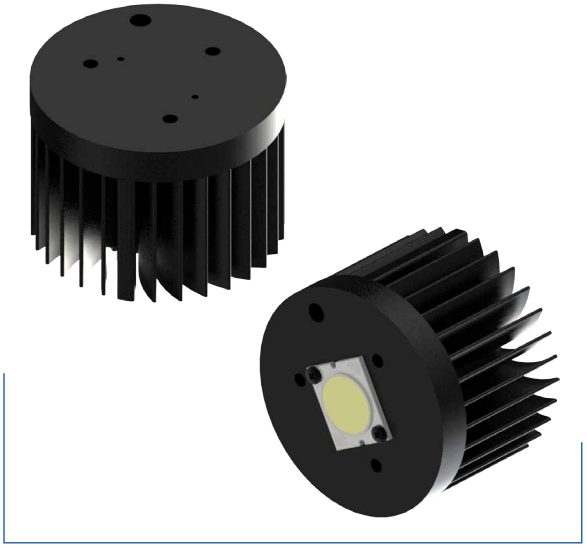
LSB7050-BRI-ESR Bridgelux LED ES Square Array Heat Sink ø70mm

Features & Benefits

- Designed for Bridgelux LED ES Square Array
- Diameter 70mm base – height 50mm
- Thermal resistance Rth 5.0°C/W
- Required Rth according Bridgelux datasheets at Tamb 40°C
  - BXRA-XX1200/1350/1600:3.68°C/W (Tc105°)
- Specific mounting pattern 2xM2.5 + cable guidance hole



Order Information

BRIDGELUX®

Example : LSB7050-BRI-ESR-B-1

LSB7050-BRI-ESR-**1**-**2**

1 Anodising color
- "B" - Black Anodised
- "C" - Clear Anodised
- "Z" - Custom (specify)

2 Mounting Options - see graphics for details
Combinations available
Ex. order code - 13
means option 1 and 3 combined

MOUNTING OPTION	THREAD	THREAD DEPTH
NONE/BLANC	NONE	NONE
1	M8 x 1	5mm MIN.
2	#5/16-24 UNC	0.197" MIN.
3	M50 x 2	Base contour

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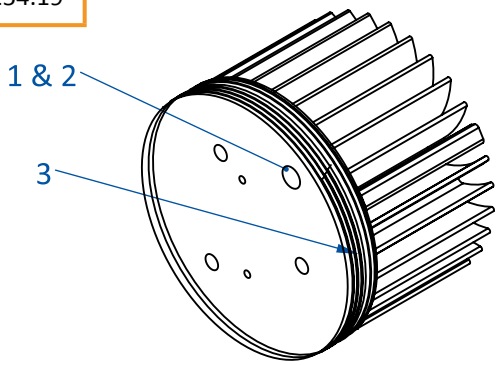
Product Details

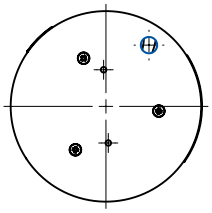
	Total Height[mm]	Rth(°C/W)	Volume[mm3]	Cooling Surface[mm2]	Weight[gr]
LSB7050-BRI-ESR	50.00	5.0	94427.53	68947.15	254.19

Notes:

1. MechaTronix reserves the right to change products or specifications without prior notice.
2. Mentioned models are an extraction of the full product range. For specific mechanical adaptations please contact MechaTronix.
3. All these types are made by forging process from highly conductive aluminum type AL6063 T5 with a typical Thermal Conductivity of 209W/m-K.

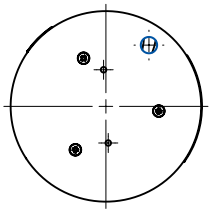
Mounting Options





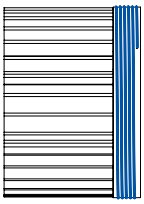
1 Mechanical version
Cable hole tapping

M8x1
Depth: 5mm



2 Mechanical version
Hole tapping

5/16-24 UNC
Depth: 0.197”

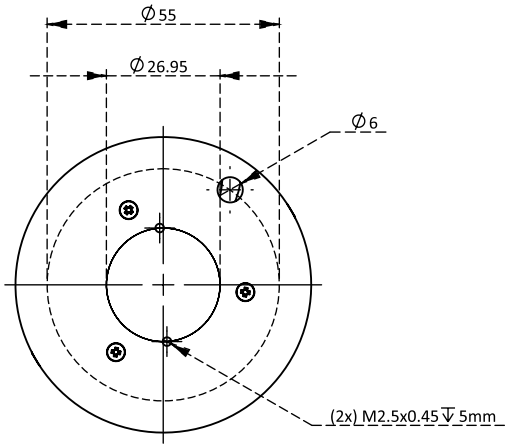


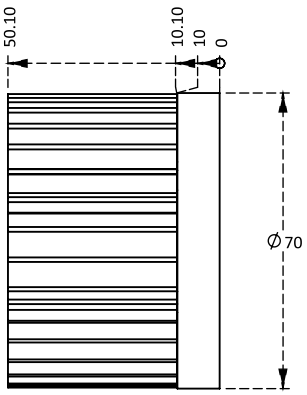
3 Mechanical version
M50x2

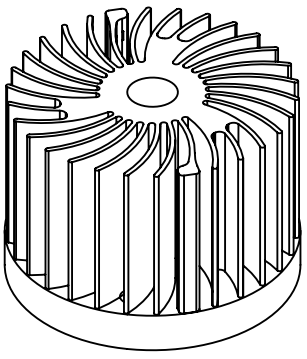
Screw thread around base contour

Drawings & Dimensions

Example : LSB7050-BRI-ESR







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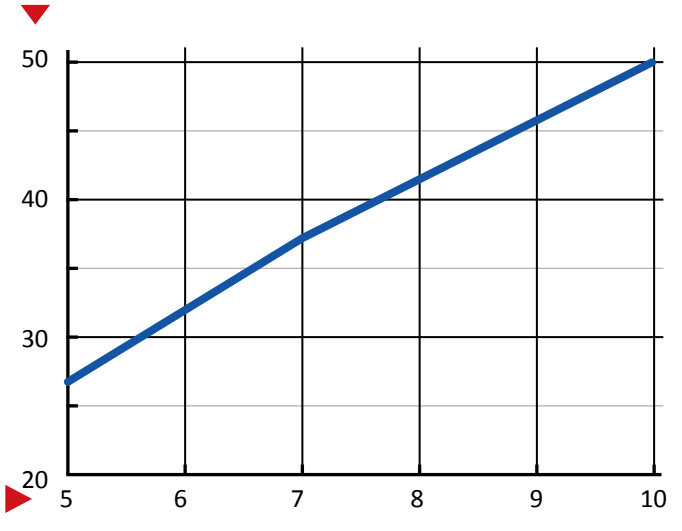
Thermal Data

Heat sink base to ambient thermal resistance, Rhs-amb [K/W]

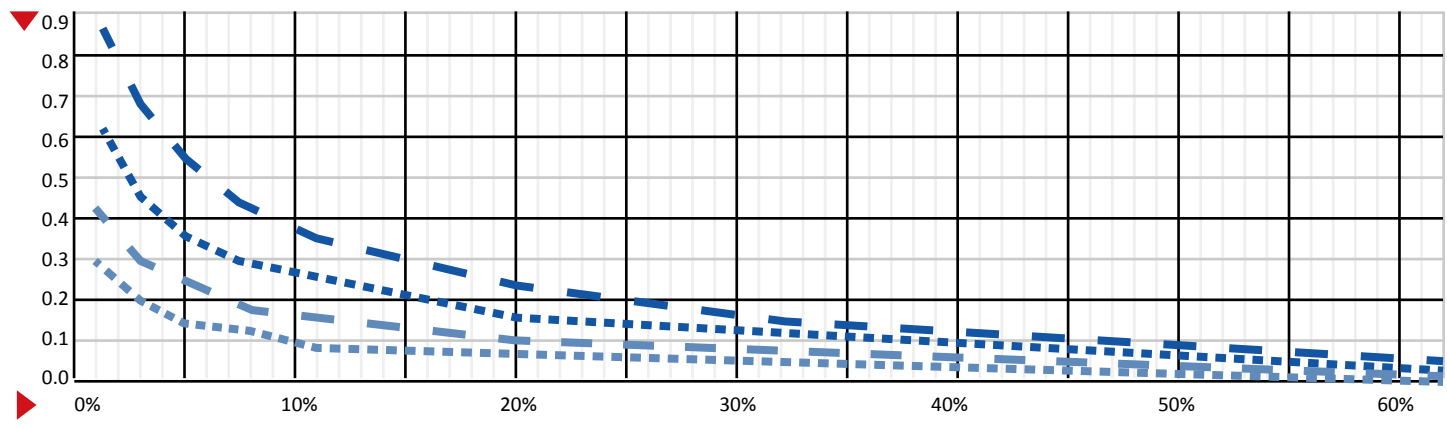
Power (W)	LSB7050-BRI-ESR
5	5.6
7	5.3
10	5.0
Rth Av.	5.0

Spreading resistance, Rsp [K/W]

Base thickness		t=2mm	t=3mm	t=5mm	t=10mm
Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]	1%	0.87	0.61	0.41	0.30
	3%	0.68	0.47	0.30	0.20
	5%	0.54	0.37	0.24	0.15
	8%	0.44	0.30	0.19	0.12
	11%	0.36	0.24	0.15	0.09
	20%	0.24	0.17	0.10	0.06
	32%	0.16	0.11	0.07	0.04
	62%	0.06	0.04	0.03	0.01



Heat sink base spreading resistance, Rsp [K/W], based on base thickness, t



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