
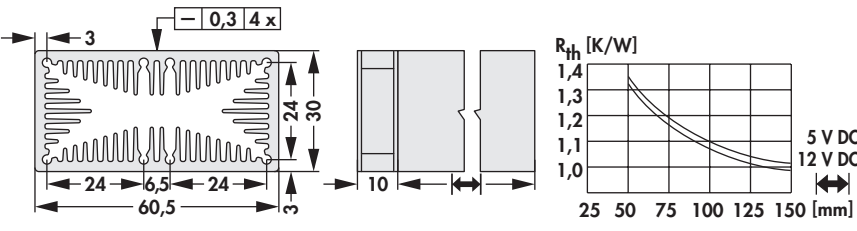

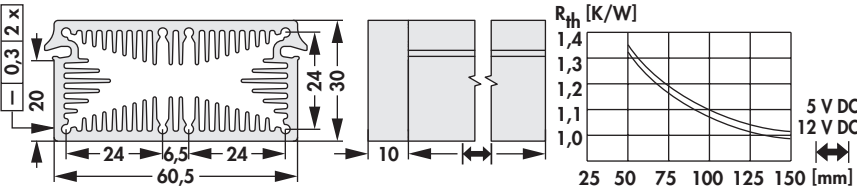


Miniature cooling aggregates

- compact design
- homogeneous heat distribution
- mounting possible on any side
- powerful axial-fan motor
- other lengths, special designs and machinings according to customer's specifications
- other surfaces, fan types and fan voltages upon request


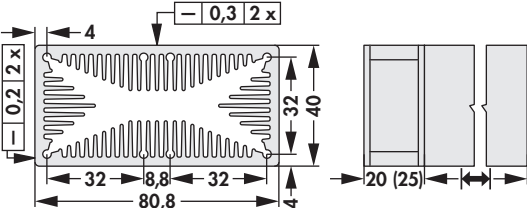
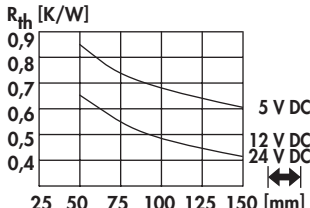

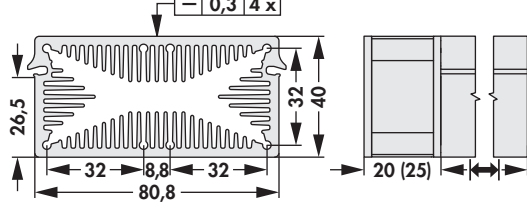
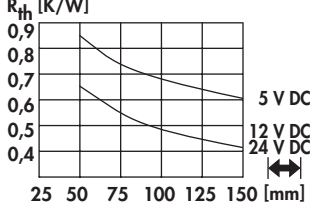
art. no. LAM 3 D ...		 <p>Dimensions: 3, 24, 60,5, 6,5, 24, 3, 24, 30, 10, 3</p> <p>Graph: R_{th} [K/W] vs length [mm]. Curves for 5 V DC and 12 V DC.</p>
art. no. LAM 3 D K ...		 <p>Dimensions: 20, 24, 60,5, 6,5, 24, 24, 30, 10, 3</p> <p>Graph: R_{th} [K/W] vs length [mm]. Curves for 5 V DC and 12 V DC.</p>
please indicate: ... \longleftrightarrow 50 75 100 125 150 mm		... fan type 5 = 5 V DC 12 = 12 V DC
surface:		natural colour anodised

Technical data of the fans

	... 5	... 12
type	Sepa, MFB 30 G 05	Sepa, MFB 30 G 12
dimensions	30x30x10 mm	30x30x10 mm
tension	5 V DC	12 V DC
max. air volume	6.8 m ³ /h	7.7 m ³ /h
cur. consumpt.	130 mA	60 mA
temperature range	-10°C... +70°C	-10°C ... +85°C
noise level	21 dB(A)	27 dB(A)
speed	8,500 min ⁻¹	9,100 min ⁻¹
weight	8 g	8 g
failure rate (L₁₀)	L ₁₀ > 95,000 h (20°C) MTBF > 280,000 h (20°C)	L ₁₀ > 100,000 h (20°C) MTBF > 400,000 h (20°C)

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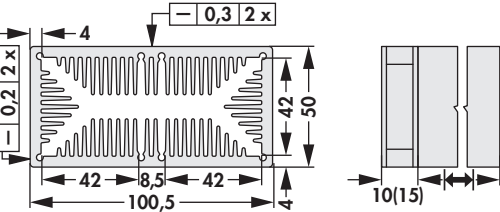
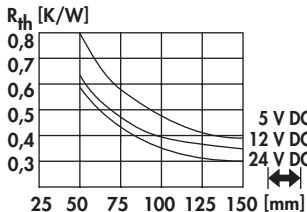

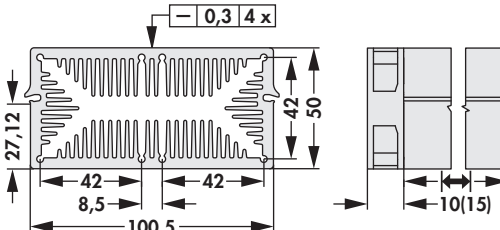
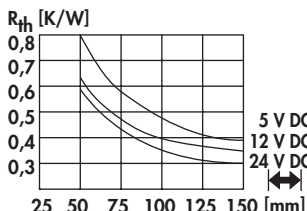
art. no. LAM 4 D ...			
art. no. LAM 4 D K ...			
please indicate: ... \longleftrightarrow 50 75 100 125 150 mm		... fan type 5 = 5 V DC 12 = 12 V DC 24 = 24 V DC	
surface:		natural colour anodised	

Technical data of the fans

	... 5	... 12	... 24
type	ebmpapst 405	ebmpapst 412 JHH	ebmpapst 414 JHH
dimensions	40x40x20 mm	40x40x25 mm	40x40x25 mm
tension	5 V DC	12 V DC	24 V DC
power inout	0.9 W	3.3 W	3.6 W
max. air volume	10 m ³ /h	24 m ³ /h	24 m ³ /h
temperature range	-20°C... +70°C	-20°C... +60°C	-20°C... +60°C
noise level	18 dB(A)	46 dB(A)	46 dB(A)
speed	6,000 min ⁻¹	13,000 min ⁻¹	13,000 min ⁻¹
weight	27 g	50 g	50 g
failure rate (L₁₀)	L ₁₀ < 50,000 h (40°C) L ₁₀ < 20,000 h (tmax)	L ₁₀ < 57,500 h (40°C) L ₁₀ < 35,000 h (tmax)	L ₁₀ < 57,500 h (40°C) L ₁₀ < 35,000 h (tmax)

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art. no. LAM 5 D ...			
art. no. LAM 5 D K ...			
please indicate: ... \longleftrightarrow 50 75 100 125 150 mm		... fan type 5 = 5 V DC 12 = 12 V DC 24 = 24 V DC	
surface:		natural colour anodised	

Technical data of the fans

	... 5	... 12	... 24
type	Sepa, MFB 50 E 05 A	Sepa, MFB 50 E 12 A	ebmpapst 514 F
dimensions	50x50x10 mm	50x50x10 mm	50x50x15 mm
tension	5 V DC	12 V DC	24 V DC
max. air volume	10 m ³ /h	14.3 m ³ /h	20 m ³ /h
temperature range	-10°C... +70°C	-10°C... +70°C	-20°C... +70°C
speed	3,400 min ⁻¹	4,800 min ⁻¹	5,000 min ⁻¹
noise level	17 dB(A)	22 dB(A)	30 dB(A)
weight	19 g	19 g	27 g
failure rate (L₁₀)	L ₁₀ > 95,000 h (20°C) MTBF > 280,000 h (20°C)	L ₁₀ > 95,000 h (20°C) MTBF > 280,000 h (20°C)	L ₁₀ 50,000 h (20°C)
alarm output	with	with	