


Picture of Product

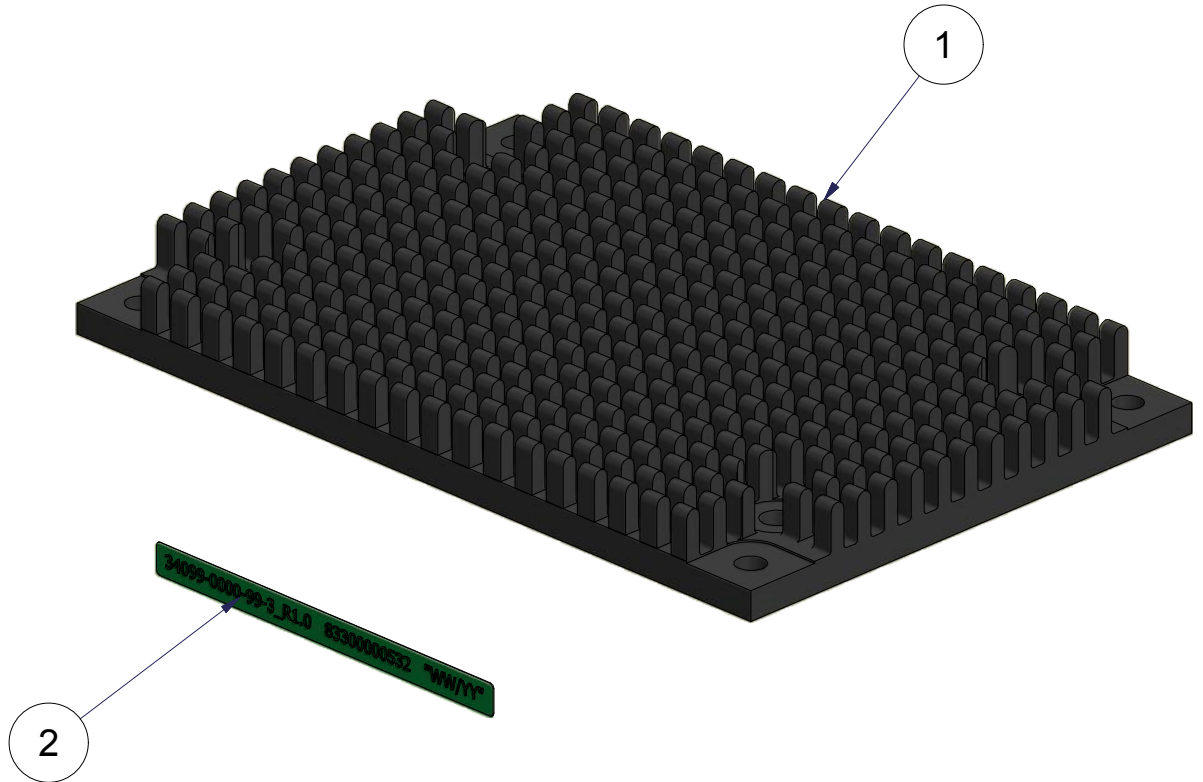



part number of customer:
34099-0000-99-3_R1.0

mass ~ 54g

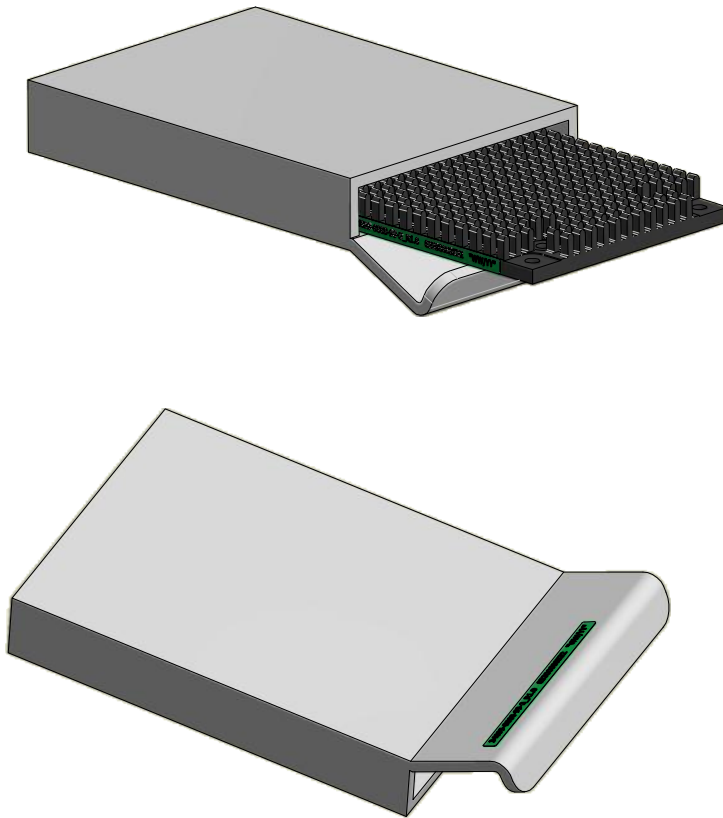
---	-----	--.--	--	Date	Name	Part.- No.: 83300000532_K00	Scale 1,5:1
---	-----	--.--	--	Designer	09.11.2016 A.Netzer		
---	-----	--.--	--	Checked	11.11.2016 A.Rauh		
---	-----	--.--	--	Enabled	11.11.2016 A.Rauh		
---	-----	--.--	--	 Nadlerstraße 10 88299 Leutkirch 07561 / 9837-0	Heatspreader Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev	1 of 7	
---	-----	--.--	--			A4	
---	-----	--.--	--				
Status	Modifications	Date	Name				

Part list

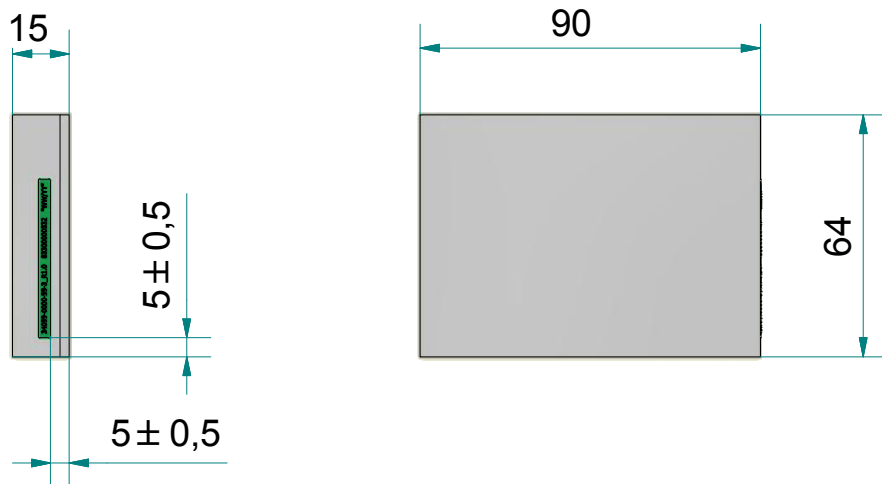



Part List									
Object	Quantity	Name of Item			Details	Material / Surface			
1	1	Heatspreader			page 5	Al6063-T5/ black anodized			
2	1	Label			page 7	-			
3	1	Packaging			page 4	-			
---	-----	---.---	--		Date	Name	Part.- No.:	83300000532_K00	Scale 1,5:1
---	-----	---.---	--	Designer	09.11.2016	A.Netzer			
---	-----	---.---	--	Checked	11.11.2016	A.Rauh			
---	-----	---.---	--	Enabled	11.11.2016	A.Rauh			
---	-----	---.---	--	 Nadlerstraße 10 88299 Leutkirch 07561 / 9837-0			Heatspreader Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev	2 of 7	
---	-----	---.---	--						A4
---	-----	---.---	--						
Status	Modifications	Date	Name						

Single packaging



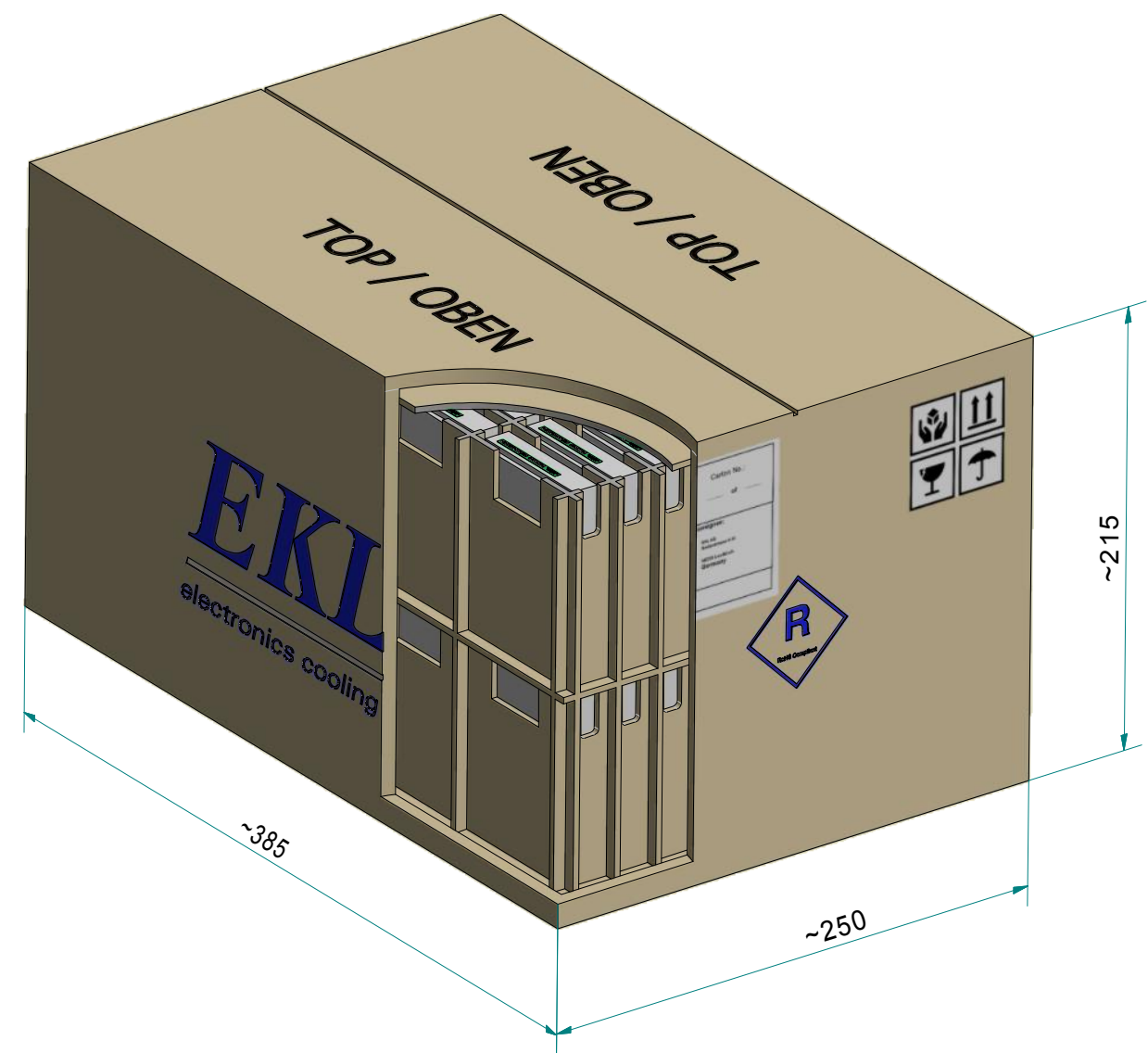
(1 : 2)




---	-----	--,--,--	--	Date	Name	Part.- No.:	83300000532_K00	Scale 1:1,5
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---	-----	--,--,--	--	Checked	A.Rauh			
---	-----	--,--,--	--	Enabled	A.Rauh	Heatspreader Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev		3 of 7
---	-----	--,--,--	--	 Nadlerstraße 10 88299 Leutkirch 07561 / 9837-0				A4
---	-----	--,--,--	--					
Status	Modifications	Date	Name					

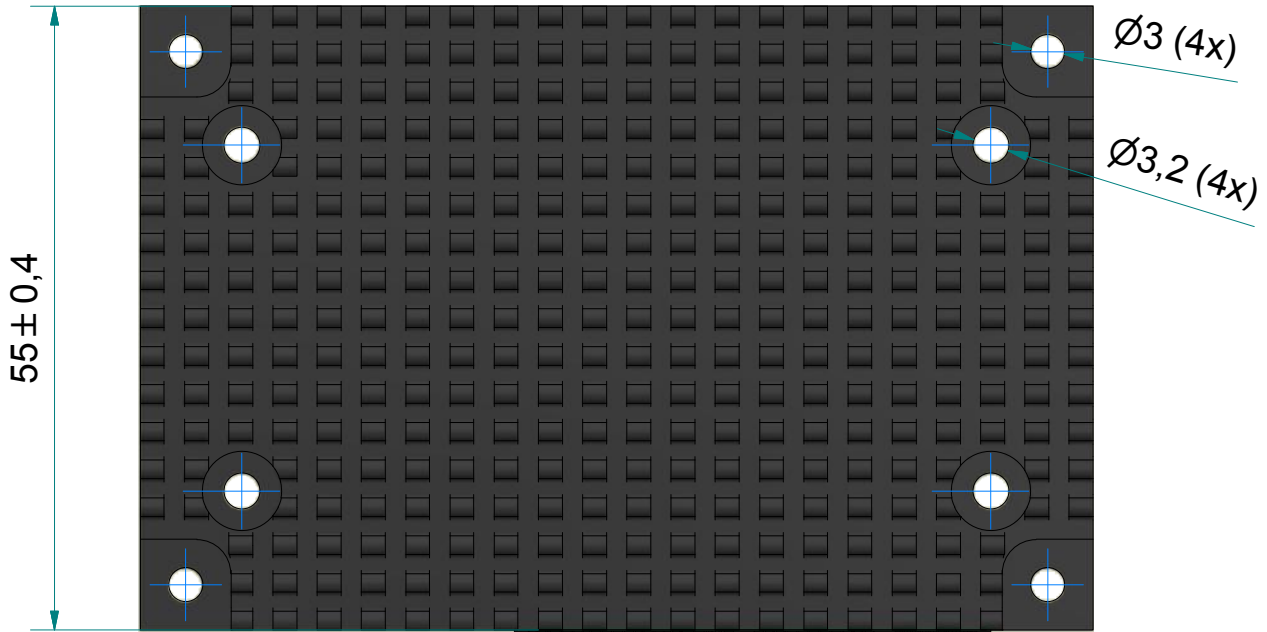
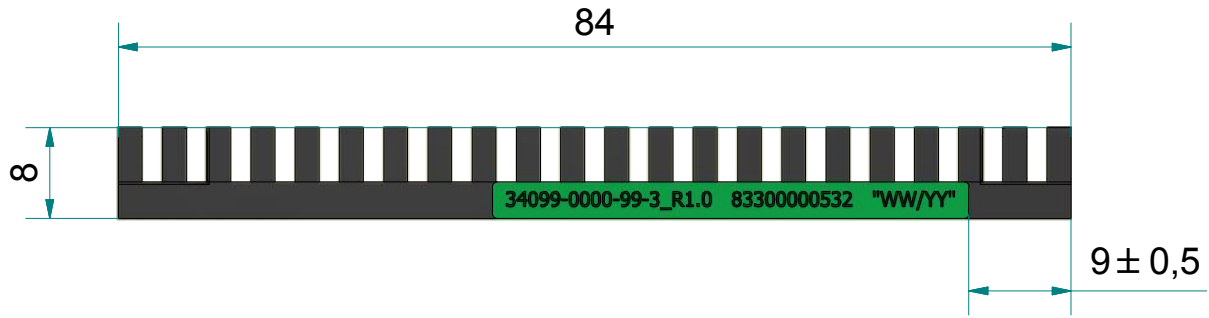
Bulk Packaging

10x5 single cartons in one layer
 2 layer in one carton
 100 parts in one carton
 total weight of one full carton ~ 6kg
 drawing is for reference
 original carton could vary



---	-----	--,--,---	--	Date	Name	Part.- No.: 83300000532_K00	Scale 1:3
---	-----	--,--,---	--	Designer 09.11.2016	A.Netzer		
---	-----	--,--,---	--	Checked 11.11.2016	A.Rauh		
---	-----	--,--,---	--	Enabled 11.11.2016	A.Rauh	Heatspreeder Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev	4 of 7 A3
---	-----	--,--,---	--	 Nadlerstraße 10 88299 Leutkirch 07561 / 9837-0			
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Status	Modifications	Date	Name				

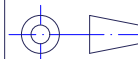
Overall Dimensions



Tolerance class DIN ISO 2768	straightness and flatness nominal dimensions ranges in mm						perpendicularity nominal dimensions ranges in mm (shorter angle leg)				symmetry nominal dimensions ranges in mm (shorter feature)				run
	up to 10	10 to 30	30 to 100	100 to 300	300 to 1000	1000 to 3000	up to 100	100 to 300	300 to 1000	1000 to 3000	up to 100	100 to 300	300 to 1000	1000 to 3000	
H	0.02	0.05	0.10	0.20	0.30	0.40	0.20	0.30	0.40	0.50	0.50				0.10
K	0.05	0.10	0.20	0.40	0.60	0.80	0.40	0.60	0.80	1.00	0.60		0.80	1.00	0.20
L	0.10	0.20	0.40	0.80	1.20	1.60	0.60	1.00	1.50	2.00	0.60	1.00	1.50	2.00	0.50

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All dimensions are in [mm]



mass ~ 54g

complying with RoHS

Material:	general tolerances machining dimensions: DIN ISO 2768mK extrusion dimensions: DIN EN12020-2 diecasting dimensions: DIN1688-4 GTA14	degree of accuracy DIN ISO 2768	0.5 to 3	to 6	to 30	to 120	to 400	to 1000	to 2000
Surface:		f (fine)	±0.05	±0.05	±0.10	±0.15	±0.20	±0.30	±0.5
		m (middle)	±0.10	±0.10	±0.20	±0.30	±0.50	±0.80	±1.20
		c (coarse)	±0.20	±0.30	±0.50	±0.80	±1.20	±2	±3

---	-----	--.--	--	Date	Name	Part.- No.: 83300000532_K00	Scale 1,5:1	
---	-----	--.--	--	Designer	09.11.2016			A.Netzer
---	-----	--.--	--	Checked	11.11.2016			A.Rauh
---	-----	--.--	--	Enabled	11.11.2016			A.Rauh
---	-----	--.--	--	Nadlerstraße 10 88299 Leutkirch 07561 / 9837-0 electronics cooling			Heatspreader Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev	5 of 7
Status	Modifications	Date	Name					A4

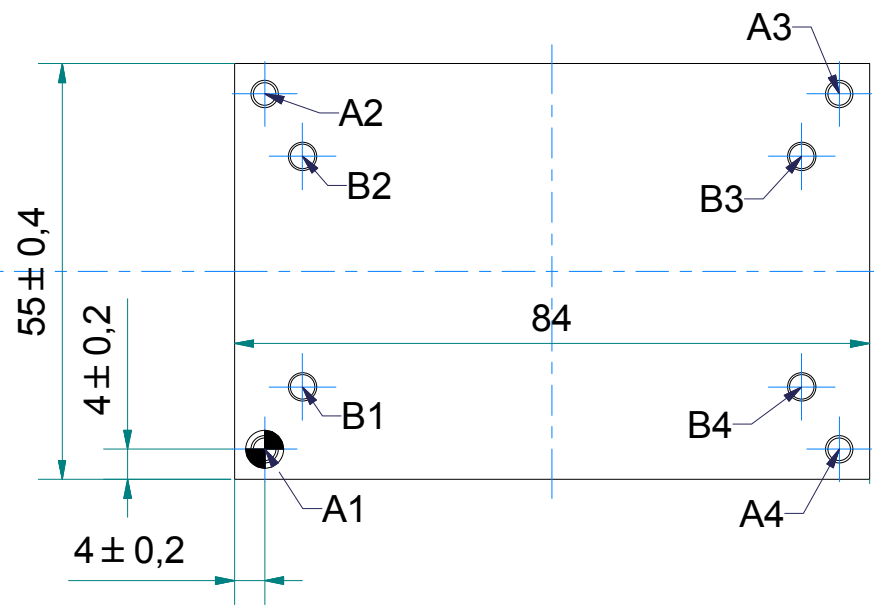
6 5 4 3 2 1

D

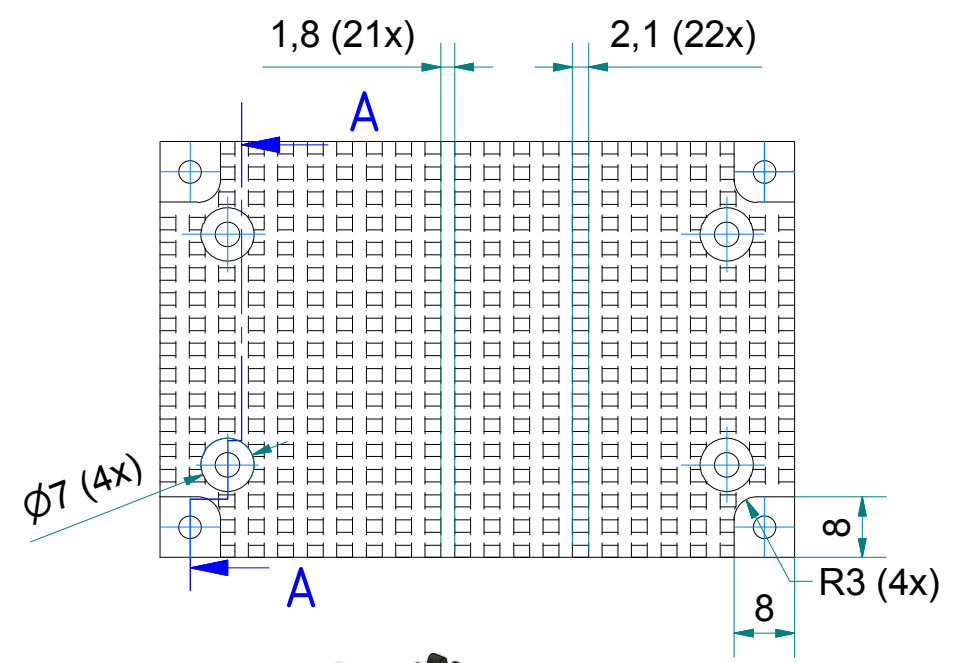
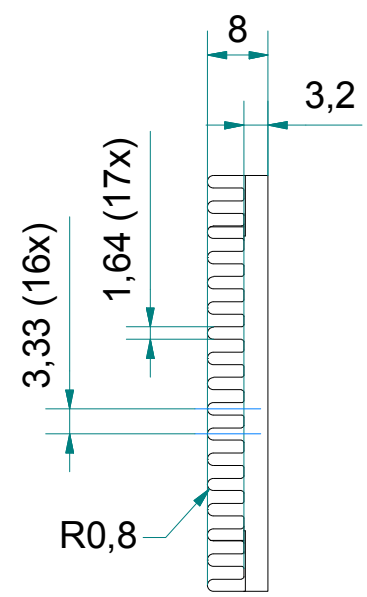
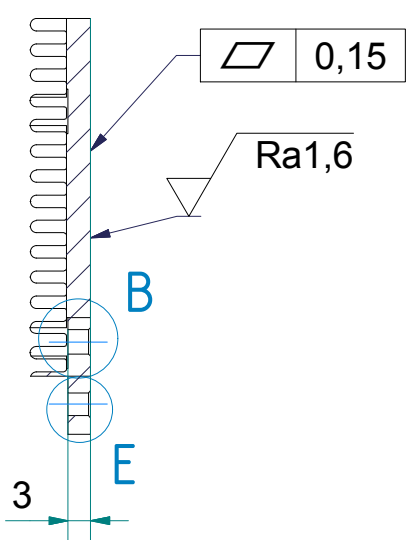
C

B

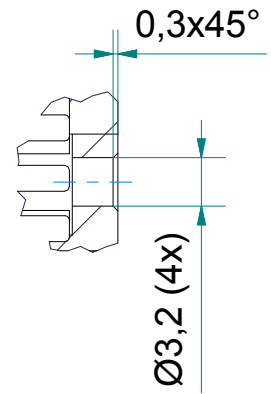
A



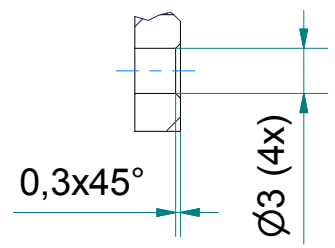
A-A (1 : 1)



B (2 : 1)



E (2 : 1)



all dimensions of coordinate dimension have a tolerance of ±0,2mm (if there is no special tolerance)

bore table

hole	x-dim	y-dim	details
A1	0	0	see detail "E"
A2	0	47	
A3	76	47	
A4	76	0	
B1	5	8,25	see detail "B"
B2	5	38,75	
B3	71,04	38,75	
B4	71,04	8,25	

Extruded Profile:
According to DIN EN 12020-2 (all Radii R=0,8mm)
If flatness and roughness could be made by extrusion it is OK - If not the manufacturer has to define a machining allowance in tooling.

Tolerance class DIN ISO 2768	straightness and flatness nominal dimensions ranges in mm						perpendicularity nominal dimensions ranges in mm (shorter angle leg)				symmetry nominal dimensions ranges in mm (shorter feature)				run
	up to 10	10 to 30	30 to 100	100 to 300	300 to 1000	1000 to 3000	up to 100	100 to 300	300 to 1000	1000 to 3000	up to 100	100 to 300	300 to 1000	1000 to 3000	
H	0.02	0.05	0.10	0.20	0.30	0.40	0.20	0.30	0.40	0.50	0.50				0.10
K	0.05	0.10	0.20	0.40	0.60	0.80	0.40	0.60	0.80	1.00	0.60		0.80	1.00	0.20
L	0.10	0.20	0.40	0.80	1.20	1.60	0.60	1.00	1.50	2.00	0.60	1.00	1.50	2.00	0.50

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All dimensions are in [mm]

Material: **AL6063-T5**

Surface: **black anodized**

mass ~ 54g

complying with RoHS

general tolerances
machining dimensions: DIN ISO 2768mK
extrusion dimensions: DIN EN12020-2
diecasting dimensions: DIN1688-4 GTA14

degree of accuracy DIN ISO 2768

	0.5 to 3	to 6	to 30	to 120	to 400	to 1000	to 2000
f (fine)	±0.05	±0.05	±0.10	±0.15	±0.20	±0.30	±0.5
m (middle)	±0.10	±0.10	±0.20	±0.30	±0.50	±0.80	±1.20
c (coarse)	±0.20	±0.30	±0.50	±0.80	±1.20	±2	±3

Date Name

Designer	09.11.2016	A.Netzer
Checked	11.11.2016	A.Rauh
Enabled	11.11.2016	A.Rauh

EKL electronics cooling
Nadlerstraße 10
88299 Leutkirch
07561 / 9837-0

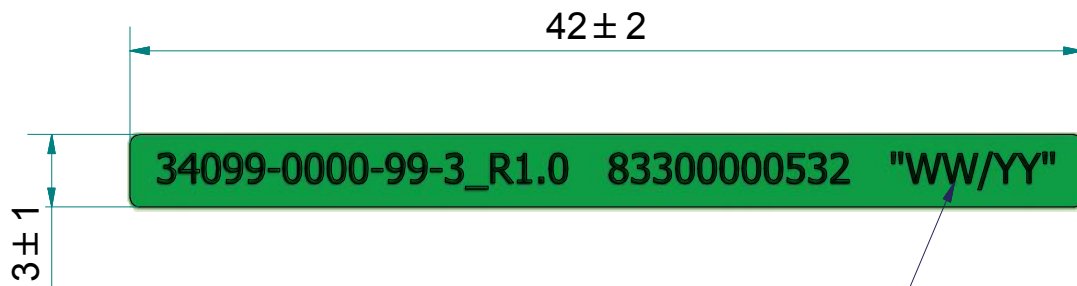
Part.- No.: **83300000532_K00**

Scale **1:1**

Heatspreader Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev

6 of 7
A3

6 5 4 3 2 1

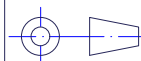


Datecode:
 WW: production week
 YY: production year

Tolerance class DIN ISO 2768	straightness and flatness nominal dimensions ranges in mm						perpendicularity nominal dimensions ranges in mm (shorter angle leg)				symmetry nominal dimensions ranges in mm (shorter feature)				run
	up to 10	10 to 30	30 to 100	100 to 300	300 to 1000	1000 to 3000	up to 100	100 to 300	300 to 1000	1000 to 3000	up to 100	100 to 300	300 to 1000	1000 to 3000	
H	0.02	0.05	0.10	0.20	0.30	0.40	0.20	0.30	0.40	0.50	0.50				0.10
K	0.05	0.10	0.20	0.40	0.60	0.80	0.40	0.60	0.80	1.00	0.60		0.80	1.00	0.20
L	0.10	0.20	0.40	0.80	1.20	1.60	0.60	1.00	1.50	2.00	0.60	1.00	1.50	2.00	0.50

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All dimensions are in [mm]



mass ~

complying with RoHS

Material:	sticker (green)		general tolerances		degree of accuracy	0.5 to 3	to 6	to 30	to 120	to 400	to 1000	to 2000		
Surface:	backside self adhesive		machining dimensions: DIN ISO 2768mK		DIN ISO 2768	f (fine)	±0.05	±0.05	±0.10	±0.15	±0.20	±0.30	±0.5	
			extrusion dimensions: DIN EN12020-2			m (middle)	±0.10	±0.10	±0.20	±0.30	±0.50	±0.80	±1.20	
			diecasting dimensions: DIN1688-4 GTA14			c (coarse)	±0.20	±0.30	±0.50	±0.80	±1.20	±2	±3	
---	-----	--.--	--	Date	Name	Part.- No.: 83300000532_K00						Scale		
---	-----	--.--	--	Designer	09.11.2016							A.Netzer	3:1	
---	-----	--.--	--	Checked	11.11.2016							A.Rauh		
---	-----	--.--	--	Enabled	11.11.2016							A.Rauh		
---	-----	--.--	--	Nadlerstraße 10 88299 Leutkirch 07561 / 9837-0		Heatspreader Alu, passiv mit Cross Cuts, flach, schwarz eloxiert, ev						7 of 7		
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---	-----	--.--	--											
Status	Modifications	Date	Name											