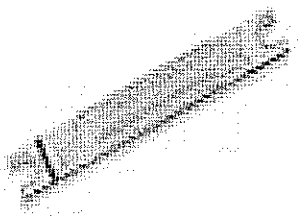
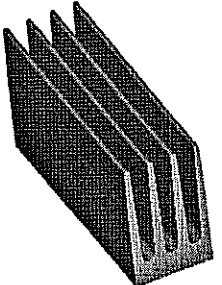
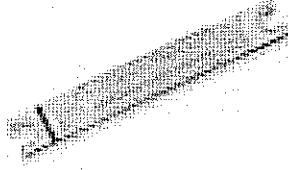
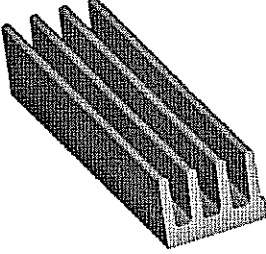
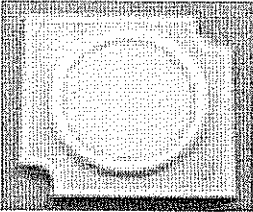
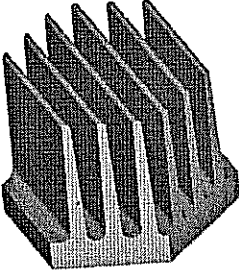

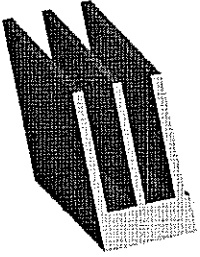
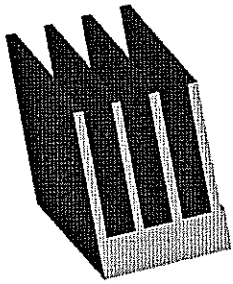
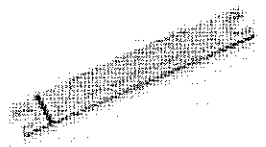


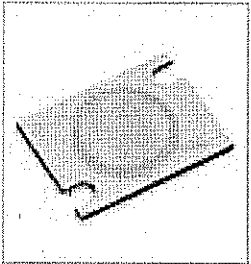
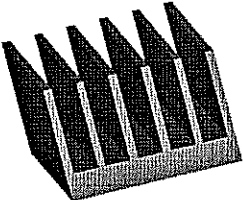
Heat sinks selection for Citizen High-Power LED's (Type:CL-L102-MC3N) Parameter: 330mA / 9V	
16.10.09	
Citizen CL-L102-MC3N LED Capacity : 3 W	KUNZE Heat sink
	KU-KK5001, black anodised
	Dimensions : W: 20mm x L:70mm x H: 27mm Thickness of the base : 5mm
	Material : AlMg3
	Interface material : double sided adhesive Thermo-silicone foil KU-SAS20
	
The LED must have a max. Tc_Temperature of 95°C Indication from Citizen	
Max measured Tc-Temperature = 34°C *	
* Measured under labortory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)	

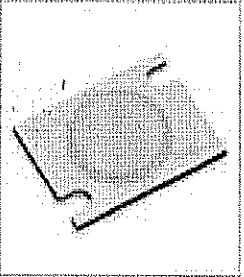
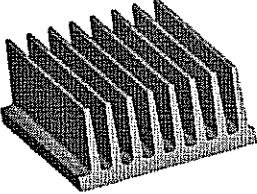
Heat sinks selection for Citizen High-Power LED's (Type:CL-L102-MC3N) Parameter: 330mA / 9V		
16.10.09		
Citizen CL-L102-MC3N LED Capacity : 3 W	KUNZE Heat sink	
	KU-KK5002, black anodised	
	Dimensions : W: 20mm x L:70mm x H: 15mm Thickness of the base : 4 mm	
	Material : AlMg3	
	Interface material : double sided adhesive Thermo-silicone foil KU-SAS20	
The LED must have a max. Tc_Temperature of 95°c Indication from Citizen		
Max measured Tc-Temperature = 39°c *		
* Measured under labotory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)		

16.10.09	Heat sinks selection for Citizen High-Power LED's (Type:CL-L251-C4N) Parameter: 500mA / 9V	
Citizen CL-L251-C4N Capacity : 4 W	KUNZE Heat sink	
	KU-KK5003, black anodised	
	Dimensions : W: 40mm x L:40mm x H: 27mm Thickness of the base : 5mm	
	Material : AlMg3	
	Interface material : double sided adhesive Thermo-silicone foil : KU-SAS20	
The LED must have a max. Tc_Temperature of 88,75°C Indication from Citizen		
Max measured Tc-Temperature = 49,2°C *		
* Measured under labortory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)		

16.10.09	<p align="center">Heat sinks selection for Citizen High-Power LED's (Type:CL-L102-C7N) Parameter: 700mA / 9V</p>	
<p>Citizen CL-L102-C7N Capacity : 7 W</p>	<p align="center">KUNZE Heat sink</p>	
	<p>KU-KK5004, black anodised Dimensions : W: 18,5mm x L:70mm x H: 33,3mm Thickness of the base : 7,9mm</p> <hr/> <p>Material : AlMg3</p> <hr/> <p>Interface material : double sided adhesive Thermo-silicone foil : KU-SAS20</p>	
<p>The LED must have a max. Tc_Temperature of 76°C Indication from Citizen</p>		
<p>Max measured Tc-Temperature = 66°C *</p>		
<p>* Measured under laboratory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)</p>		

16.10.09	Heat sinks selection for Citizen High-Power LED's (Type:CL-L102-C7N) Parameter: 700mA / 9V	
Citizen CL-L102-C7N Capacity : 7 W	KUNZE Heat sink	
	KU-KK5005 Black anodised	
	Dimensions : W: 26,5mm x L:70mm x H: 33,3mm Thickness of the base : 7,9mm	
	Material : AlMg3	
	Interface material : double sided adhesive Thermo-silicone foil : KU-SAS20	
The LED must have a max. Tc_Temperature of 76°C Indication from Citizen		
Max measured Tc-Temperature = 39°C *		
* Measured under laboratory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)		

16.10.09	Heat sinks selection for Citizen High-Power LED's (Type:CL-L230-C10N-A) Parameter: 900mA / 11,40V	
Citizen CL-L230-C10N-A Capacity : 10 W	KUNZE Heat sink	
	KU-KK5006 black anodised Dimensions : W: 41,5mm x L:41,5mm x H: 33,3mm Thickness of the base : 7,9mm Material : Almg3 Interface material : double sided adhesive Thermo-silicone foil : KU-SAS20	
The LED must have a max. Tc_Temperature of 76°C Indication from Citizen		
Max measured Tc-Temperature = 58,2°C *		
* Measured under laboratory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)		

16.10.09	Heat sinks selection for Citizen High-Power LED's (Type:CL-L230-C10N-A) Parameter: 900mA / 11,40V	
Citizen CL-L230-C10N-A Capacity : 10W	KUNZE Heat sink	
	<p>KU-KK5007 black anodised Dimensions : W: 50mm x L:50mm x H: 27mm Thickness of the base : 5mm</p> <p>Material : Almg3</p> <p>Interface material : double sided adhesive thermo-silicone foil : KU-SAS20</p>	
The LED must have a max. Tc_Temperature of 76°C Indication from Citizen		
Max measured Tc-Temperature = 62°C *		
<p>* Measured under labotory conditions at ambient Temperature of 25°C. (Measured with Greisinger GT H1170 Digital thermometer and Fine wire sensor)</p>		

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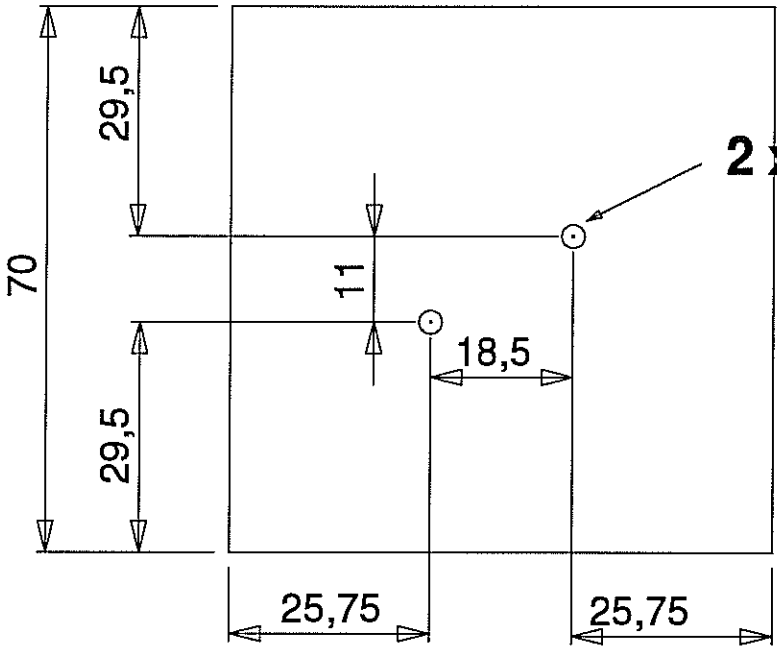
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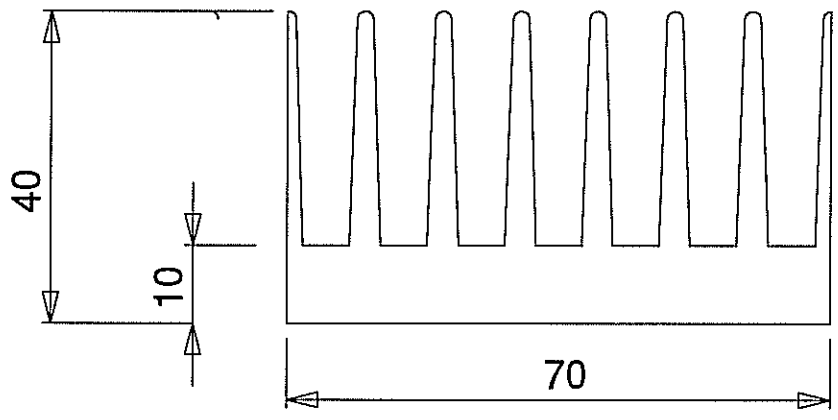
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Zust.	Aenderung	Datum	Name
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Masse ohne
Toleranzangabe
DIN ISO 2768
mittel

2011
Bearb.
Gepr.
Norm

Oberflaeche
DIN ISO 1302

Datum
01.02.

Name
AM

Kunze Folien GmbH

Massstab 1 : 1

Werkstoff

Benennung
Kuehloerper

Zeichnungsnummer
KU-KK5009

Gewicht

Blatt 1

BL