

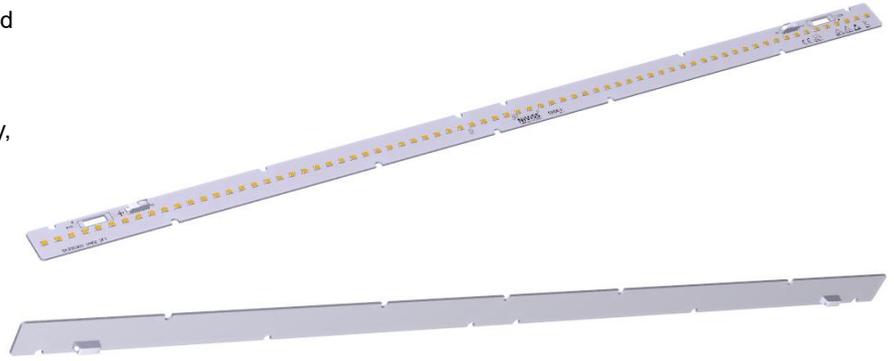
72R559X20-JB2835B family are LED modules based on the CREE LED® J Series® 2835 optimized for cost effective and high efficacy applications. 72R559X20-JB2835B modules are providing optimized and easy integration, with excellent quality, reliability and precision. Two variants of connectors allow to cover a wide range of needs.

High efficacy **212 lm/W** and up to **16287 lm**.

LM-80 lifetime projections (IEC 62717)
> 100,000 (L70B10)¹

Possibility to connect 5 modules in series per chain for FR4.

EPREL registered product



➤ SPECIFICATION

LED FAMILY	SERIES 2835	
CCT/SDCM	3000K 3-STEP	4000K 3-STEP
Viewing Angle	120°	
Nominal Module Lumen Output ²	2089 lm	2220 lm
Nominal Efficacy ²	200 lm/W	212 lm/W
CRI	80	
Nominal Driving Current	220 mA	
Voltage DC ² (typ.)	47,6 V	
Power Consumption ²	10,5 W	
Max. LED module working current³	1,9 A / module	
Max. LED module lumen output³	15323 lm	16287 lm
Number of LEDs	72	
Power Supply Type	Constant Current	
Risk Group Classification ⁴	RG-1 Low Risk	
Energy Class	B	B
Operating Temperature	-30°C ÷ +60°C	
Tc max.	85°C	
Lifetime ¹ /Tc life	>102000 h 55°C, 220 mA,	

¹ Lifetime of LEDs as declared by the manufacturer [CREE LED®](#) according to IES LM-80-2015 Testing Results.
² Source performance in real-life conditions at T=55°C without heatsink.
³ External heatsink required.
⁴ According to [Eye safety Cree document](#)

➤ FEATURES

Application:

- ❖ Decorative lighting
- ❖ Accent lighting
- ❖ Task lighting
- ❖ General lighting
- ❖ Recessed furniture LED spotlight

Feature:

- ❖ The module is dimmable by current set (0-100%)
- ❖ Long Lifetime
- ❖ Energy Saving

EPREL Database link
QR CODE

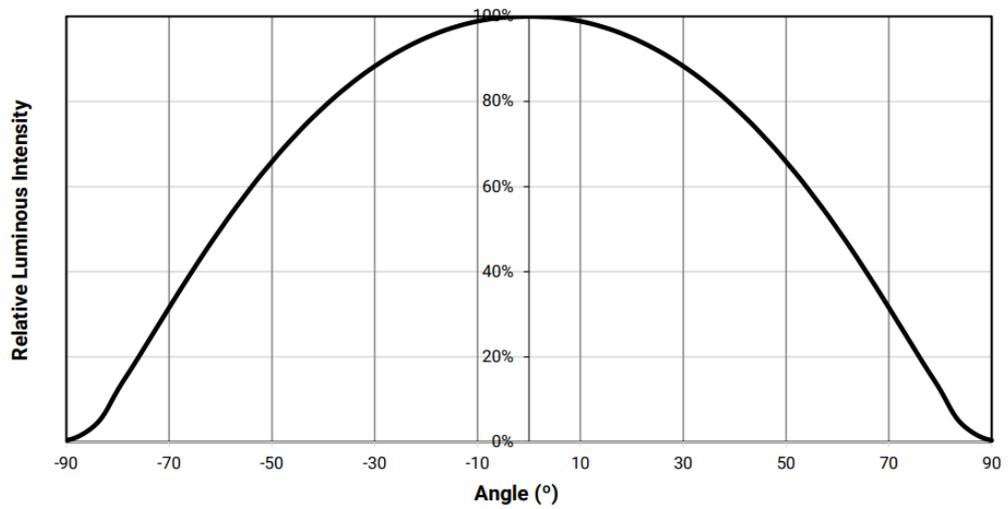
VA01 (FR4)



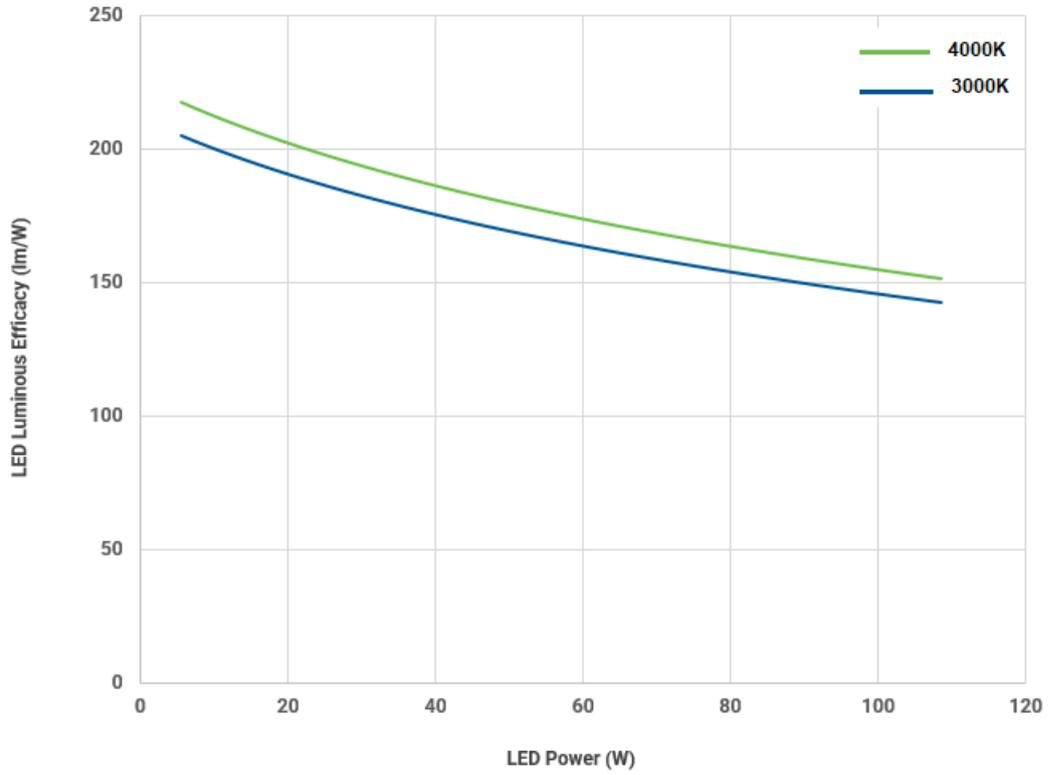
VA02 (MCPCB)



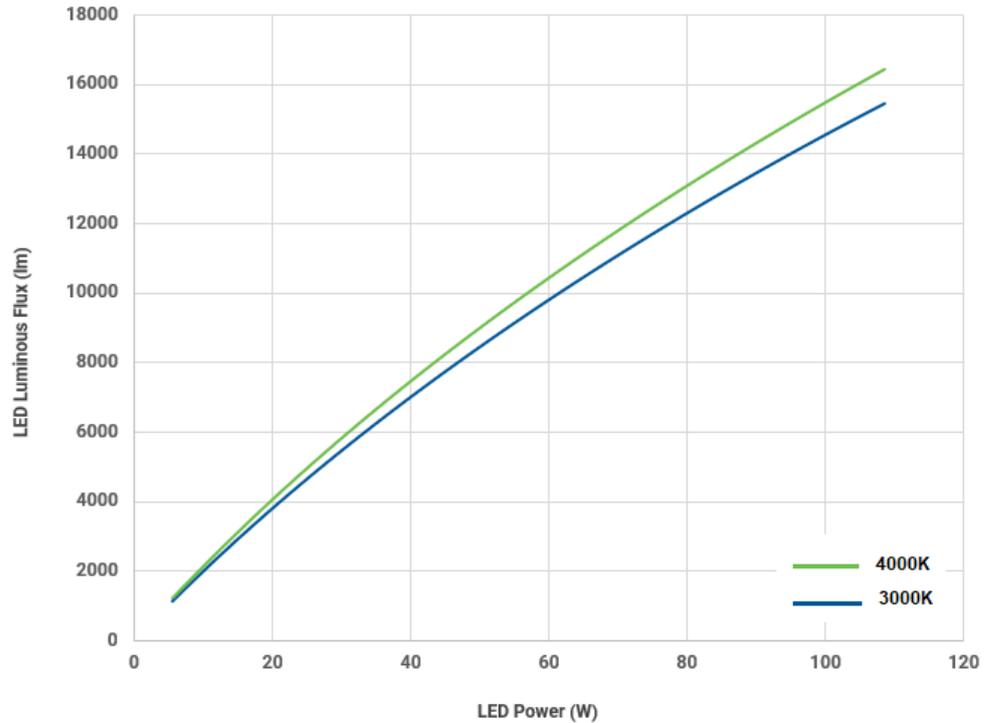
➤ TYPICAL SPATIAL DISTRIBUTION



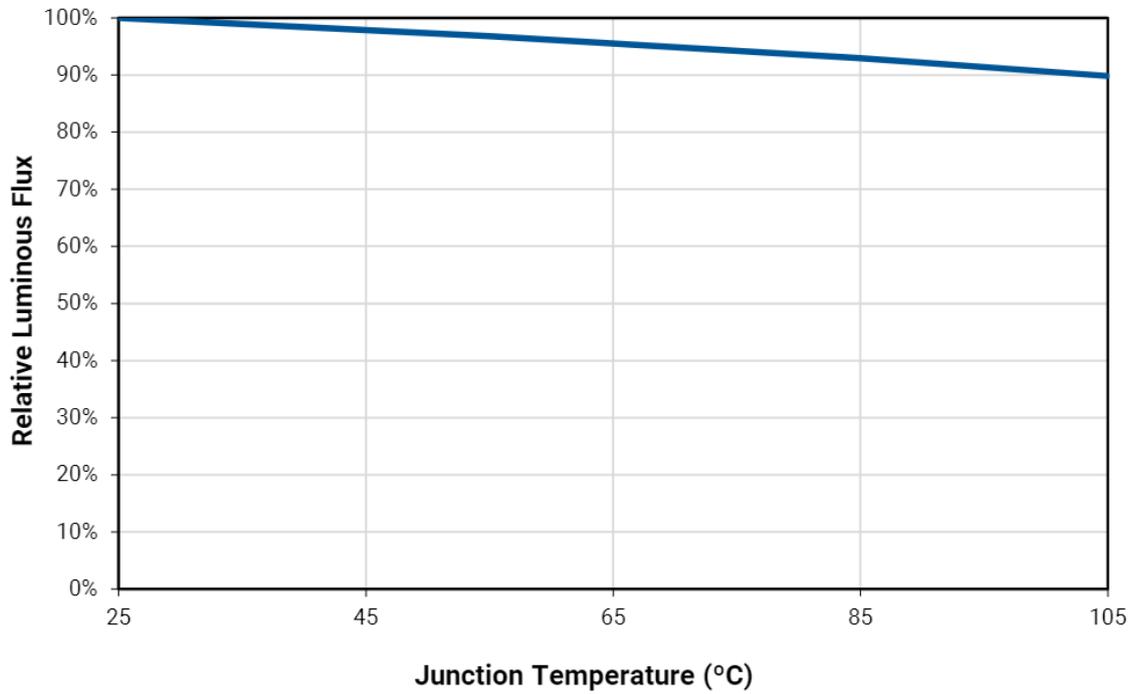
➤ LUMINOUS EFFICACY VS. POWER



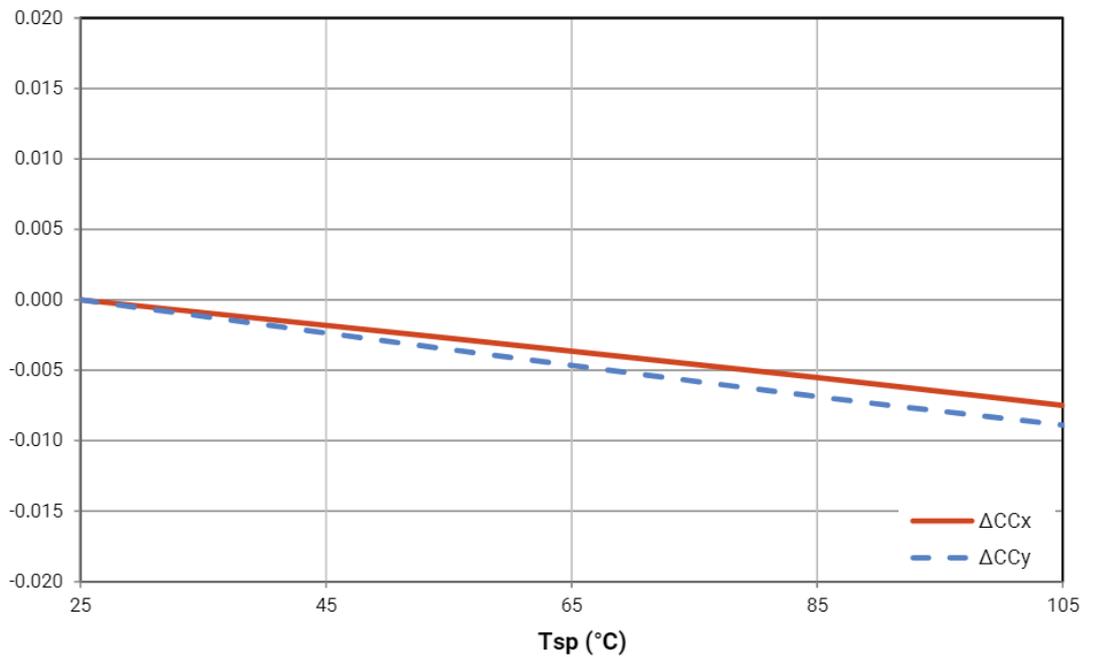
➤ LUMINOUS FLUX VS. POWER



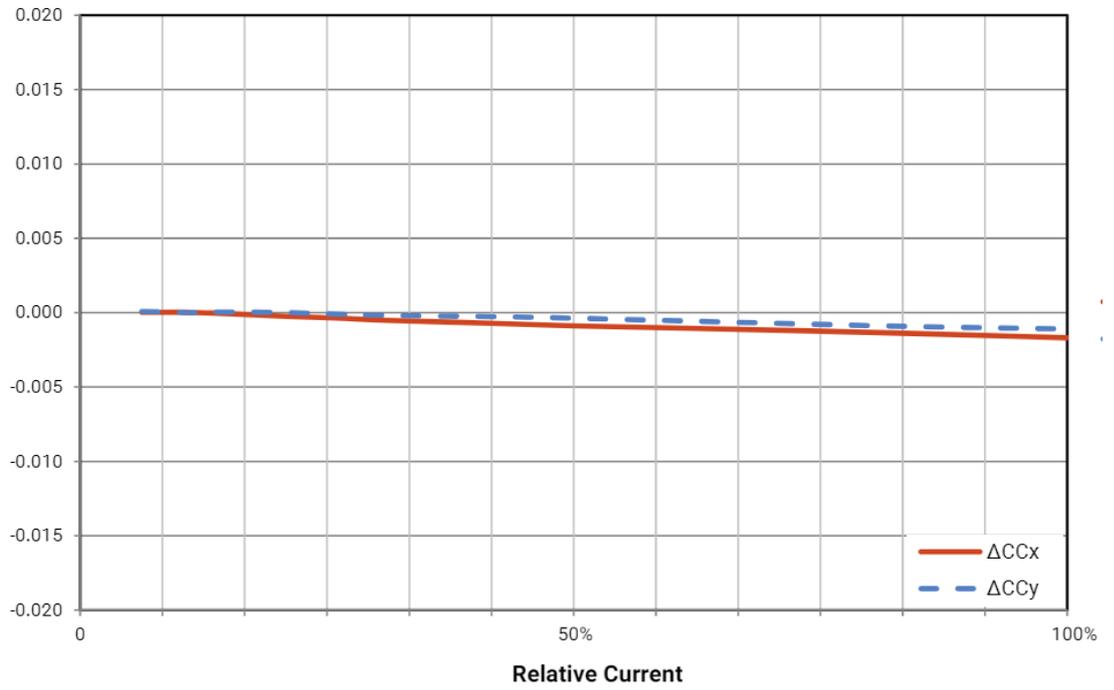
➤ LUMINOUS FLUX
VS.
JUNCTION
TEMPERATURE



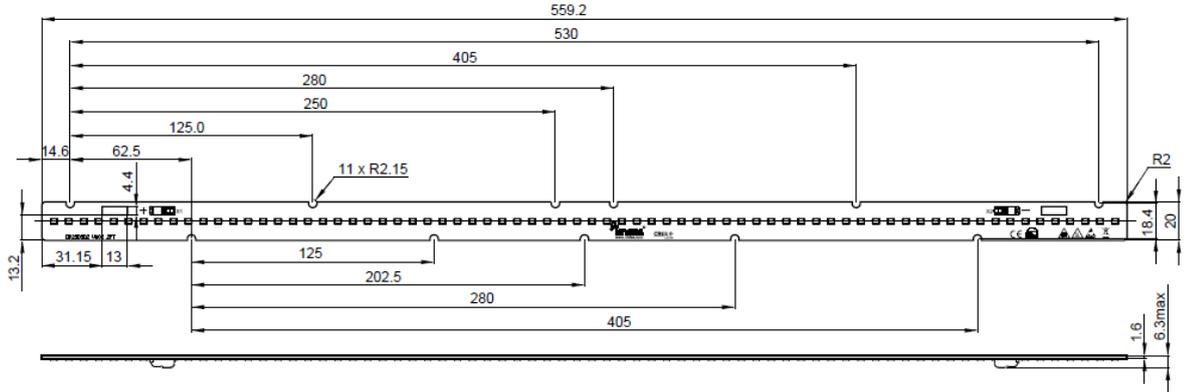
➤ RELATIVE
CHROMATICITY
VS.
TEMPERATURE



➤ **RELATIVE CHROMATICITY VS. CURRENT**



➤ DIMENSIONS



Variant with through-board connectors:



Notes:
Drawing is not to scale.
All dimensions are in millimeters.

MECHANICAL SPECIFICATION	
Dimensions	559.2 x 20 mm
Board Thickness	1.6 mm
Board Material	FR4 or MCPCB; white soldermask
Shape	Rectangular

➤ CONNECTION



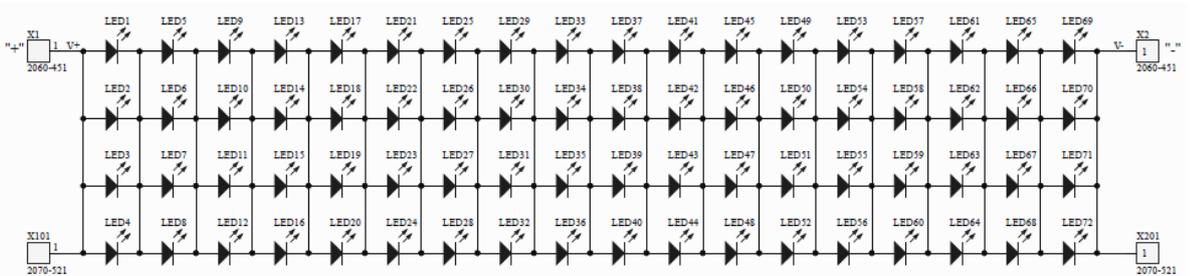
Inserting solid conductors via push-in termination.



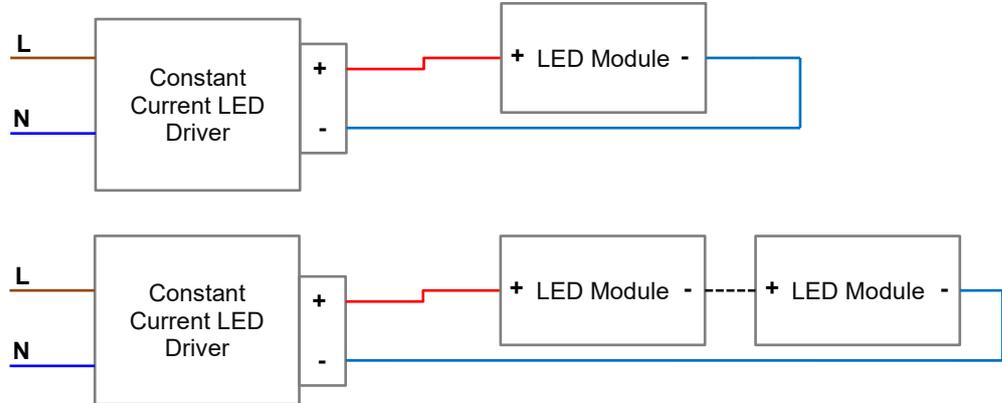
Inserting/removing fine-stranded conductors by lightly pressing on push-button (e.g., using a 206-860 operating tool).



➤ ELECTRICAL SCHEMA



➤ ELECTRICAL
INSTALLATION



Note:

1. Max number of modules in series per chain for FR4 – 5;
2. Max Number of modules in series per chain for MCPCB – 3.

➤ ORDERING CODE

ORDERING CODE / ARTICLE CODE	DESCRIPTION
MOD-72R559X20-JB2835B-3080-VA01	LED Module High Efficacy 559,2x20mm 72 LED 2835, 3000K, CRI 80, FR4
MOD-72R559X20-JB2835B-4080-VA01	LED Module High Efficacy 559,2x20mm 72 LED 2835, 4000K, CRI 80, FR4
MOD-72R559X20-JB2835B-3080-VA02	LED Module High Efficacy 559,2x20mm 72 LED 2835, 3000K, CRI 80, MCPCB
MOD-72R559X20-JB2835B-4080-VA02	LED Module High Efficacy 559,2x20mm 72 LED 2835, 4000K, CRI 80, MCPCB
MOD-72R559X20-JB2835B-3080-VA01A	LED Module High Efficacy 559,2x20mm 72 LED 2835, 3000K, CRI 80, FR4, Through-Board Connectors
MOD-72R559X20-JB2835B-4080-VA01A	LED Module High Efficacy 559,2x20mm 72 LED 2835, 4000K, CRI 80, FR4, Through-Board Connectors
MOD-72R559X20-JB2835B-3080-VA02A	LED Module High Efficacy 559,2x20mm 72 LED 2835, 3000K, CRI 80, MCPCB, Through-Board Connectors
MOD-72R559X20-JB2835B-4080-VA02A	LED Module High Efficacy 559,2x20mm 72 LED 2835, 4000K, CRI 80, MCPCB, Through-Board Connectors
Customer Modules on request	

➤ COMMERCIAL
INFORMATION

COMMERCIAL INFORMATION	
Connector	WAGO 2060
Available Lenses	No
Minimum Order Quantity	20 pcs.
Warranty	3 years

➤ **GENERAL TERMS OF USE**

1. The range of acceptable input voltages must include the expected voltage dropout across the LED string check on CREE LED [Website J Series[®] 2835](#)
2. Connecting to the power supply should be done when the power supply is off.
3. Modules should be connected to heatsink to dissipate heat form LED module. Temperature on the module shouldn't be higher than recommended by Cree[®]. Due to power of the module, appropriate heatsink should be used with thermal conductive tape or paste. The lower temperature on LED module causes longer lifetime.
4. During installation of the LED module it is absolutely necessary to use ESD protection. Luminaire design should protect the module from ESD. Installation of the LED module should be done by qualified person.
5. Lenses, diodes and other components on the module must be protected against mechanical damage and exposure to liquids and dirt.
6. The modules shouldn't have contact with hazardous and corrosive substances or aromatic organic compounds such as toluene, acetone, xylene, benzene.
7. For installation of modules use substances recommended and tested by the CREE LED[®]. List of substances available on the manufacturer's website: cree-led.com

**Niviss is not responsible for any damage or failure due to not comply with above rules.
Otherwise, the complaint will not be taken into account.**

➤ **ENVIRONMENTAL CAUTION**



Caution!

It is prohibited to dispose of obsolete and waste electrical and electronic equipment together with regular household wastes. They should be properly sorted and recycled. Old electrical and electronic equipment should be returned to a waste collection point established by a waste-management service. Waste electrical and electronic equipment can be broken down to base materials and then recycled. For more information regarding waste management please contact your local authorities, waste-management service or the seller of electrical and electronic devices.

➤ **DATA DOWNLOAD**



- [3D PDF FILE](#)
- [STEP FILE](#)
- [EU DECLARATION OF CONFORMITY \(CE\)](#)