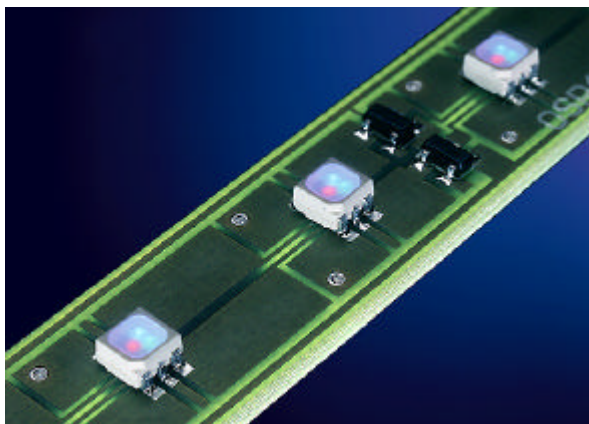


Data Sheet

LINEARlight Colormix

OS-LM01M-RGB



- LINEARlight for dynamic color applications
- Utilises Multi-LED incorporating 3 individual LED die (red/green/blue)
- Low heat generation
- Complete module contains 30 LEDs on a 15 mm pitch
- Complete module dimensions 450 mm x 11.5 mm x 3.65 mm (L*W*H)
- The module can be sub-divided into sub-modules containing 10 LED or multiples of 10 LEDs
- Maximum of 10 modules in parallel

Specification for the minimum sub module (10 LEDs) operating at 100% brightness

Type	Color	Wavelength (λ _D nom.)	Luminous intensity (cd)	Luminous flux (lm)	Supply voltage (V)	Maximum current (mA)	Maximum power (W)
OS-LM01M-Rxx	red	617 nm	3.5	10.5	24dc	25	0.6
OS-LM01M-xGx	green	525 nm	3.5	10.5	24dc	41	0.985
OS-LM01M-xxB	blue	470 nm	1.0	3	24dc	41	0.985
All colors	RGB		8.0	24	24dc	107	2.57

Specification for a complete module (30 LEDs) operating at 100% brightness

Type	Color	Luminous intensity (cd)	Luminous flux (lm)	Supply voltage (V _{DC})	Maximum current (mA)	Maximum power (W)
OS-LM01M-RGB	RGB	24	72	24	300	7.7

Applications

A linear LED-module for various applications e.g.

- Coupling LED-light into diffused or engraved transparent glass and plastic
- Profile luminaires
- Outline markers
- Backlighting diffusing glass and plastics
- Indirect illumination

Maximum ratings

Parameter	Symbol	value	unit
Temperature at Tc-point	T_c	-30 ... +65	°C
Storage temperature	T_{stg}	-30 ... +65	°C
Maximum operating voltage	V_{max}	25	V_{DC}
Maximum reverse voltage	V_R	25	V_{DC}

Assembly information

- Solder connections should only be made at the designated solder pads or
- Connection by connect system RAST 2,5 Nr. MFMP 7238, manufacturer STOCKO CONTACT, D- 42327 Wuppertal www.stocko.de .
- Each module can be divided into submodules (10 LED) by cutting carefully at the points indicated
- Maximum of 10 modules (30 LEDs) in parallel
- The module is not protected against humidity or dust. In applications where excessive humidity or dust is present the construction of any luminaire should ensure that the module is in accordance with European standards.
- The operating temperature of the module should be measured at the maximum design ambient temperature with it installed in a completed luminaire by using a thermosensor or temperature sticker. These are available from distributors such as RS components (<http://www.rswww.com>)

Power supplies and control units

LINEARlight Colormix should be powered by a 24V DC power supply such as the OSRAM OPTOTRONIC 24 V range. Dimming and color control is effected by Pulse Width modulation (PWM) of the individual red, green and blue 24V supplies. Suitable RGB-controllers include:

- **OSRAM OT RGB 3 –Channel DIM.** A 3 –channel dimming/color controller with industry standard 1-10 V control outputs, used in conjunction with 3 **OSRAM OT DIM** PWM dimming units.
- **OT RGB Sequencer DIM.** As the OT RGB 3 channel dim but incorporating an integrated sequencer

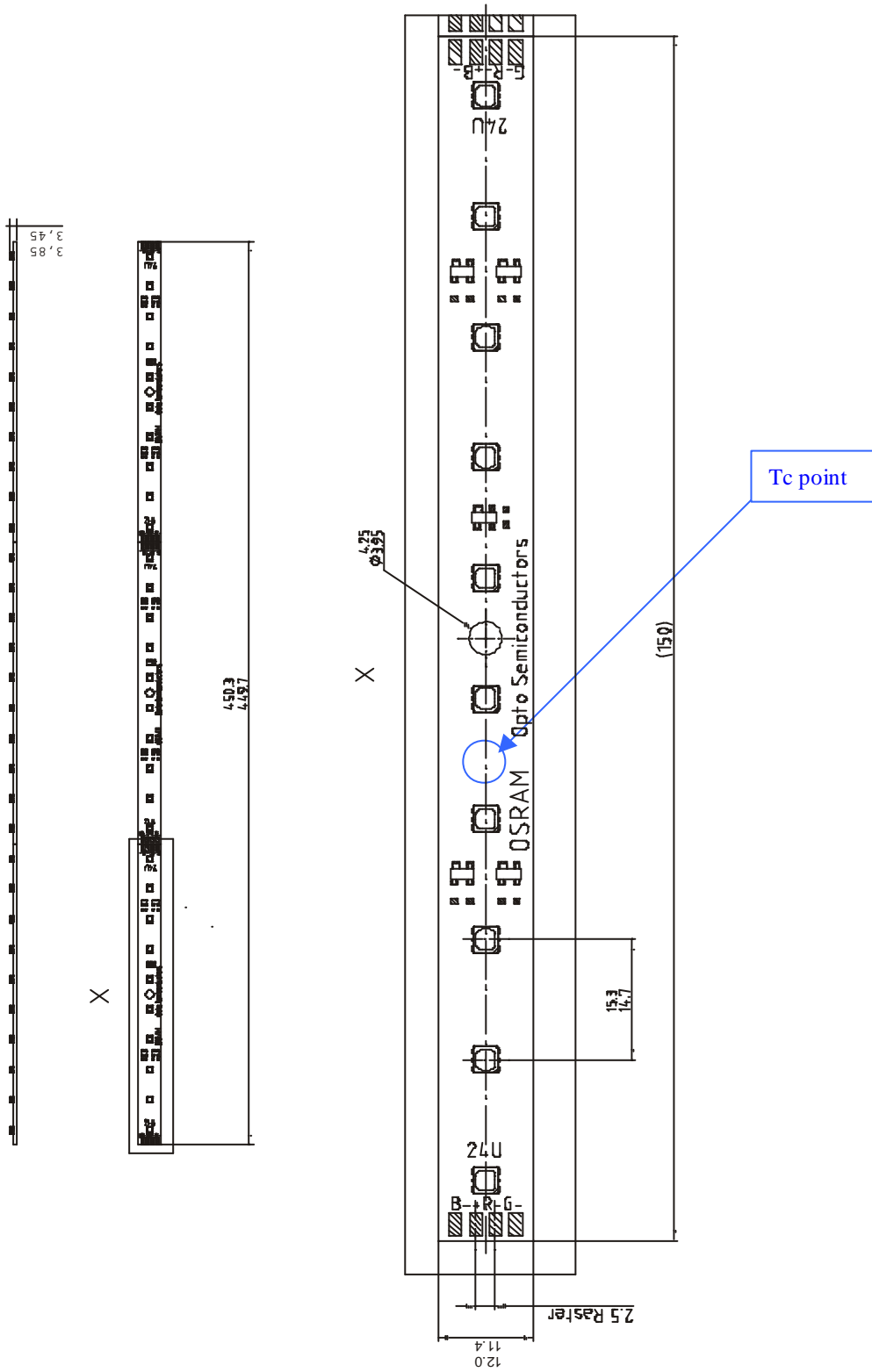
Further information and wiring diagrams are included in the control unit datasheets

ordering code OS-LM 01M-RGB

packaging unit 10 pcs.

Technical drawing

measures in mm



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