

LINEARlight FLEX

Colored flexible LED strips, cuttable



Areas of application

- Injection of light into displays and low-profile light guides
- Information signs, advertising or display cabinet lighting
- Backlighting of complex contours
- For decorative applications: LF05A
- Small coves and decorative applications

Product family benefits

- Low height for low-profile surface/enclosed mounting
- Low thermal output
- Flexible 3-D mounting possible
- Flexible board with double-sided adhesive tape for simple mounting
- LF05A with smaller dimensions and additional cutting options thanks to the use of the LF-2TERM end cap

Product family features

- Can be divided into the smallest unit or multiples thereof without affecting the function of the remainder of the board
- Dimmable by pulse width modulation (PWM)



Product family datasheet

Technical data

Electrical data

Product description	Input voltage range	Nominal current	Nominal voltage	Nominal wattage	Accidental reverse input voltage protection up to	Type of current
LF05A2 -O3 ¹⁾	23...25 V	3.5 A	24.0 V	83.00 W	25 V	DC
LF05A2 -R3 ¹⁾	23...25 V	3.45 A	24.0 V	83.00 W	25 V	DC
LF05A2 -T3 ¹⁾	23...25 V	2 A	24.0 V	49.00 W	25 V	DC
LF05A2 -Y3 ¹⁾	23...25 V	3.5 A	24.0 V	83.00 W	25 V	DC
LF05E -R1 ¹⁾	23...25 V	1.5 A	24.0 V	36.00 W	25 V	DC
LF05E -T2	23...25 V		24.0 V	24.50 W	25 V	DC
LF05E -Y1 ¹⁾	23...25 V	1.5 A	24.0 V	36.00 W	25 V	DC

¹⁾ See product remark

Photometrical data

Product description	Light color (designation)	Light color LED	Luminous flux	Nominal dominant wavelength
LF05A2 -O3 ¹⁾	Orange	Orange	1350 lm	602 nm
LF05A2 -R3 ¹⁾	Red	Red	1100 lm	625 nm
LF05A2 -T3 ¹⁾	Green	Green	1650 lm	525 nm
LF05A2 -Y3 ¹⁾	Yellow	Yellow	1100 lm	587 nm
LF05E -R1 ¹⁾	Red	Red	840 lm	625 nm
LF05E -T2	Green	Green	940 lm	525 nm
LF05E -Y1 ¹⁾	Yellow	Yellow	840 lm	587 nm

¹⁾ See product remark

Light technical data

Product description	Beam angle
LF05A2 -O3 ¹⁾	120 °
LF05A2 -R3 ¹⁾	120 °
LF05A2 -T3 ¹⁾	120 °
LF05A2 -Y3 ¹⁾	120 °
LF05E -R1 ¹⁾	120 °
LF05E -T2	120 °
LF05E -Y1 ¹⁾	120 °

¹⁾ See product remark

Product family datasheet

LED module information

Product description	Number of LEDs per smallest unit
LF05A2 -O3 ¹⁾	5
LF05A2 -R3 ¹⁾	5
LF05A2 -T3 ¹⁾	5
LF05A2 -Y3 ¹⁾	5
LF05E -R1 ¹⁾	5
LF05E -T2	5
LF05E -Y1 ¹⁾	5

¹⁾ See product remark

Dimensions & weight

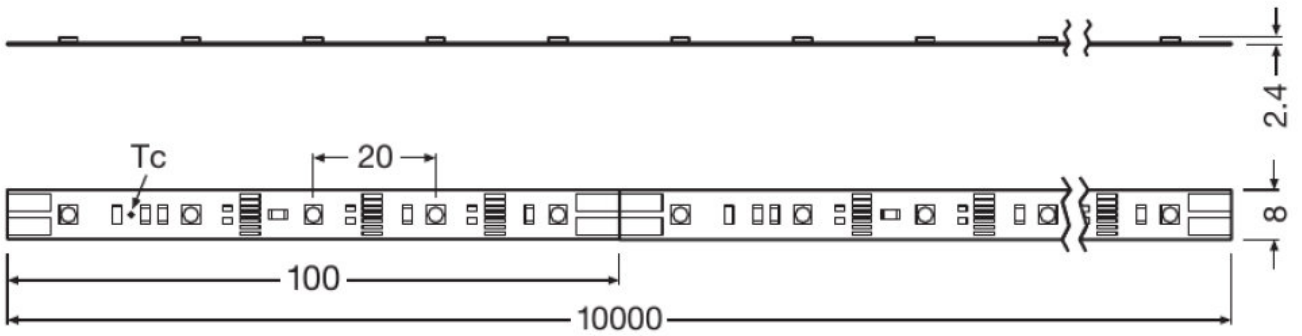
Product description	Length	Length – smallest unit	Width	Height
LF05A2 -O3 ¹⁾	10000 mm	100.0 mm	8.0 mm	2.4 mm
LF05A2 -R3 ¹⁾	10000 mm	100.0 mm	8.0 mm	2.4 mm
LF05A2 -T3 ¹⁾	10000 mm	100.0 mm	8.0 mm	2.4 mm
LF05A2 -Y3 ¹⁾	10000 mm	100.0 mm	8.0 mm	2.4 mm
LF05E -R1 ¹⁾	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm
LF05E -T2	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm
LF05E -Y1 ¹⁾	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm

¹⁾ See product remark

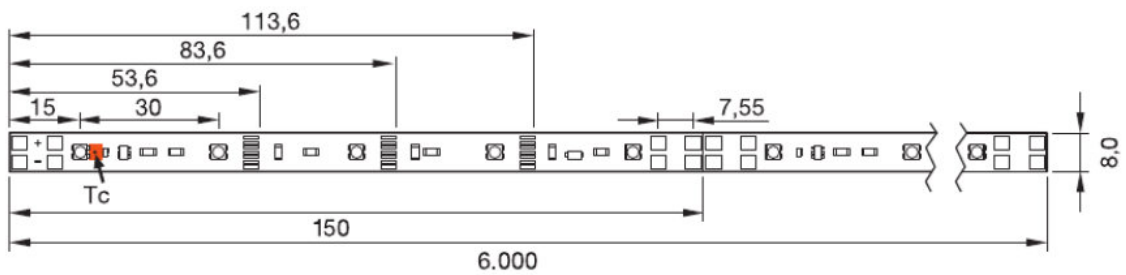
²⁾ LED pitch 30 mm

Product family datasheet

Product line drawing



LF05A2 -O3, LF05A2 -R3, LF05A2 -T3, LF05A2 -Y3



LF05E -R1, LF05E -T2, LF05E -Y1

Product family datasheet

Temperatures & operating conditions

Product description	Temperature range at storage	Temperature range in operation at T _c point
LF05A2 -O3 ¹⁾	-20...+85 °C	-20...+75 °C ²⁾
LF05A2 -R3 ¹⁾	-20...+85 °C	-20...+75 °C ²⁾
LF05A2 -T3 ¹⁾	-20...+85 °C	-20...+75 °C ²⁾
LF05A2 -Y3 ¹⁾	-20...+85 °C	-20...+75 °C ²⁾
LF05E -R1 ¹⁾	-40...+85 °C	-30...+75 °C ²⁾
LF05E -T2	-40...+85 °C	-30...+75 °C ²⁾
LF05E -Y1 ¹⁾	-40...+85 °C	-30...+75 °C ²⁾

¹⁾ See product remark

²⁾ At the T_c point

Lifespan

Product description	Lifespan
LF05A2 -O3 ¹⁾	50000 h ²⁾
LF05A2 -R3 ¹⁾	50000 h ²⁾
LF05A2 -T3 ¹⁾	50000 h ²⁾
LF05A2 -Y3 ¹⁾	50000 h ²⁾
LF05E -R1 ¹⁾	50000 h ²⁾
LF05E -T2	50000 h ²⁾
LF05E -Y1 ¹⁾	50000 h ²⁾

¹⁾ See product remark

²⁾ L70/B50 at T_c 40 °C

Certificates & standards

Product description	Standards
LF05A2 -O3 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LF05A2 -R3 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LF05A2 -T3 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LF05A2 -Y3 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LF05E -R1 ¹⁾	Acc. to 2004/108/EC
LF05E -T2	Acc. to 2004/108/EC
LF05E -Y1 ¹⁾	Acc. to 2004/108/EC

¹⁾ See product remark

Product family datasheet

Logistical data

Product description	Commodity code
LF05A2 -O3 ¹⁾	940540399000
LF05A2 -R3 ¹⁾	940540399000
LF05A2 -T3 ¹⁾	940540399000
LF05A2 -Y3 ¹⁾	940540399000
LF05E -R1 ¹⁾	940540399000
LF05E -T2	940540399000
LF05E -Y1 ¹⁾	940540399000

¹⁾ See product remark

Product remark

Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information (see www.osram.com/led-systems)./All technical parameters apply to the entire module/In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Equipment / Accessories

- Simplified connection with the optional CONNECTsystem

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support













Sales and Technical Support www.osram.com

Country specific information

Product description	Product code	METEL code	SEG-No.	STK number	UK Org
LF05E -R1	4008321955418	OSRLF05ER1	-	4031337	-
LF05E -R1	4008321955418	OSRLF05ER1	-	4031337	-
LF05E -T2	4008321955449	OSRLF05ET2	-	4031338	-
LF05E -T2	4008321955449	OSRLF05ET2	-	4031338	-
LF05E -Y1	4008321955432	OSRLF05EY1	-	4031339	-
LF05E -Y1	4008321955432	OSRLF05EY1	-	4031339	-

Product family datasheet

Download Data

File	
	Product Family Datasheet 491092_LINEARlight Flex ADVANCED – LF05A2 (Monochrome Versions)
	Certificates ENEC Licence
	Certificates UL Certificate
	Declarations of conformity Declaration of conformity
	Eulumdat 496970_LF05A2-O3 - LDT
	Eulumdat 496971_LF05A2-R3 - LDT
	Eulumdat 496972_LF05A2-T3 - LDT
	Eulumdat 496973_LF05A2-Y3 .LDT
	Product Datasheet 334085_LINEARlight Flex LF05E (EN)
	Eulumdat 322538_LF05E R1
	Eulumdat 322539_LF05E T2
	Eulumdat 322544_LF05E Y1

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899924093	LF05A2 -O3	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	4970.00 g
4052899924086	LF05A2 -R3	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	4531.00 g
4052899924116	LF05A2 -T3	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	4970.00 g
4052899924109	LF05A2 -Y3	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	4970.00 g
4008321955418	LF05E -R1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1481.00 g
4008321955449	LF05E -T2	Shipping carton box 8	202 mm x 195 mm x 240 mm	9.45 dm ³	1481.00 g
4008321955432	LF05E -Y1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1481.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Accessories Optional

Product description	Accessory name	Accessory code
LF05A2 -O3	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05A2 -O3	LF -WIRE-150 FLEX SC	▶ 4008321875563
LF05A2 -O3	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
LF05A2 -O3	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
LF05A2 -O3	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF05A2 -O3	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
LF05A2 -R3	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05A2 -R3	LF -WIRE-150 FLEX SC	▶ 4008321875563
LF05A2 -R3	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
LF05A2 -R3	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
LF05A2 -R3	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF05A2 -R3	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
LF05A2 -T3	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05A2 -T3	LF -WIRE-150 FLEX SC	▶ 4008321875563
LF05A2 -T3	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
LF05A2 -T3	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
LF05A2 -T3	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF05A2 -T3	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
LF05A2 -Y3	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05A2 -Y3	LF -WIRE-150 FLEX SC	▶ 4008321875563
LF05A2 -Y3	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
LF05A2 -Y3	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
LF05A2 -Y3	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF05A2 -Y3	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
LF05E -R1	LF -CONN-10 FLEX	▶ 4008321955333
LF05E -R1	LF -CONN-150 FLEX	▶ 4008321955340
LF05E -R1	LF-LTS -2100	▶ 4008321978981
LF05E -R1	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05E -R1	LF -WIRE-150 FLEX SC	▶ 4008321875563
LF05E -T2	LF -CONN-10 FLEX	▶ 4008321955333

Product family datasheet

LF05E -T2	LF -CONN-150 FLEX	▶ 4008321955340
LF05E -T2	LF-LTS -2100	▶ 4008321978981
LF05E -T2	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05E -T2	LF -WIRE-150 FLEX SC	▶ 4008321875563
LF05E -Y1	LF -CONN-10 FLEX	▶ 4008321955333
LF05E -Y1	LF -CONN-150 FLEX	▶ 4008321955340
LF05E -Y1	LF-LTS -2100	▶ 4008321978981
LF05E -Y1	LF -WIRE-30 FLEX SC	▶ 4008321875587
LF05E -Y1	LF -WIRE-150 FLEX SC	▶ 4008321875563

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.