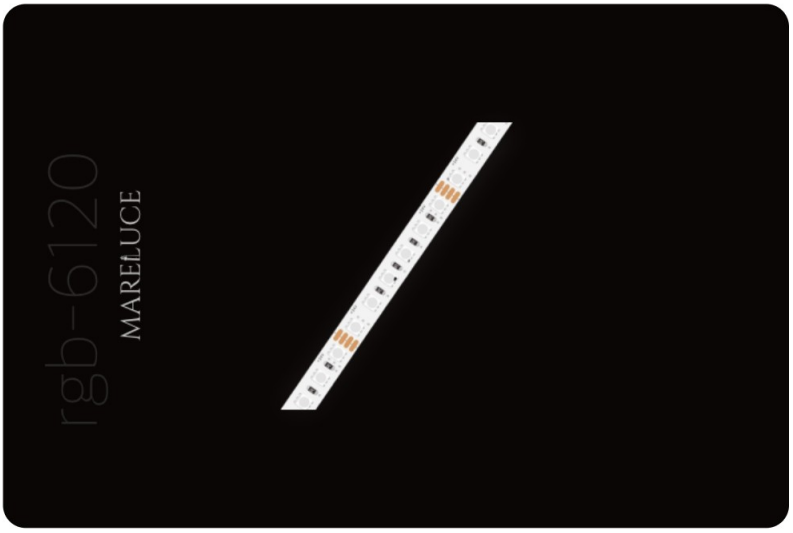
LED STRIP · RGB · 2835 SMD

RGB-6120

5 mm narrow RGB LED strip, 120 LEDs/m, 10 W/m · 12 / 24 V DC



PCB WIDTH 5 mm	POWER 10 W/m
VOLTAGE 12 / 24 V DC	CUT UNIT (24 V) 50 mm
LED DENSITY 120 LEDs/m	MIN. BEND RADIUS 50 mm

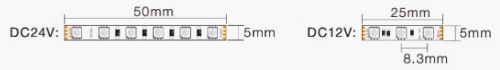
Overview

RGB-6120 is a narrow 5 mm RGB LED strip with 120 2835 LEDs per metre at an 8.3 mm pitch, giving smooth colour mixing in slim profiles, handrails, step edges and furniture details where a standard 10 mm strip will not fit. Works with any 3-channel RGB controller, 12 or 24 V DC.

Specifications

Dimension	5000 × 5 × 2 mm (5 m reel)
LED	2835 SMD RGB, 120 LEDs/m, 8.3 mm pitch
Cut unit	6 LEDs / 50 mm (24 V) · 3 LEDs / 25 mm (12 V)
Power	10 W/m (all channels on)
Current	0.42 A/m (24 V) · 0.21 A/m (12 V)
Colours	Red 620–625 nm · Green 520–525 nm · Blue 465–470 nm
Beam angle	120°
Dimming	PWM
PCB	2 oz copper, high-thermal 3M adhesive
Min. bend radius	50 mm
Ambient temperature	−20 °C to +50 °C
Lead wire	150 mm, 4-core, 20 AWG
Protection	IP20 standard; IP65H, IP65 on request

Cut Unit



ORDERING INFORMATION

Product Code

RGB-6120	RGB	24 V
MODEL	COLOUR	VOLTAGE
	3 channels	12·24 V DC

Specify supply voltage when ordering. Example: **RGB-6120**, 24 V DC. Requires a 3-channel RGB controller.

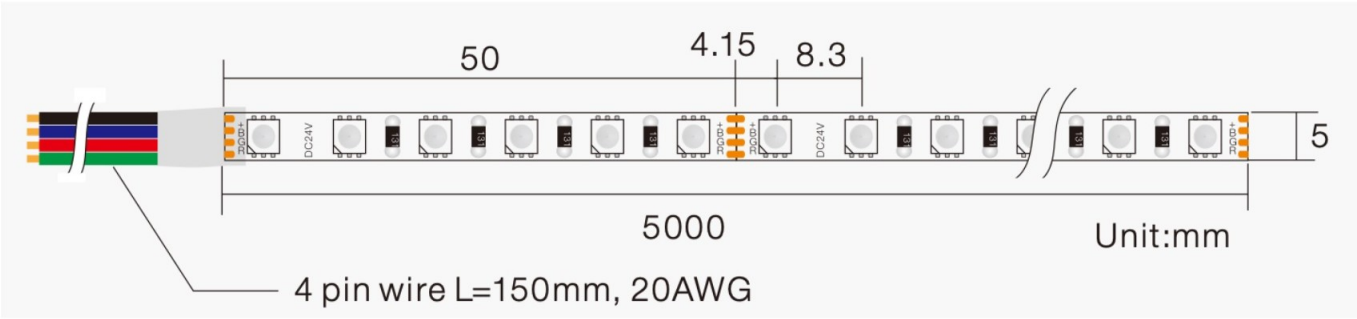
Photometric Data

CHANNEL	WAVELENGTH / CCT	POWER	LM/M	LM/W
Red	620–625 nm	3.22 W/m	84	26.2
Green	520–525 nm	3.49 W/m	279	79.8
Blue	465–470 nm	3.29 W/m	62	18.9
RGB (all on)	—	10 W/m	418	41.8

Measured on IP20 strip at 24 V DC, one channel at full output; RGB = all channels on.

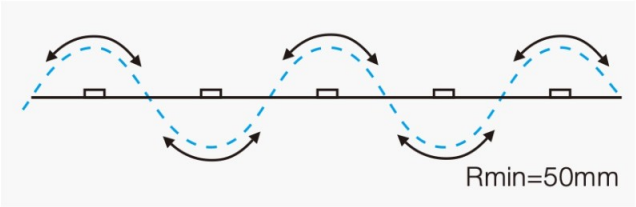
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



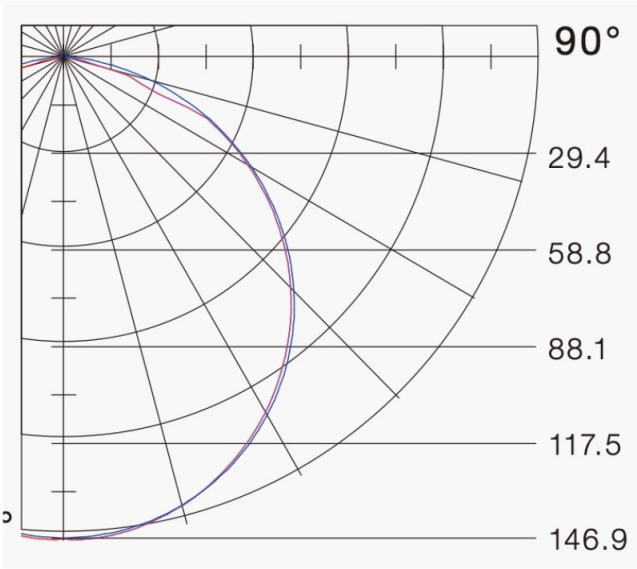
5 m reel, 5 mm PCB; cut marks every 50 mm (24 V) or 25 mm (12 V); 150 mm 4-core lead wire, 20 AWG.

Bending



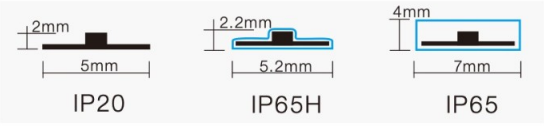
Flexible strip; minimum bend radius 50 mm. Do not bend at the cut marks.

Polar Curve



Reference: IP20, RGB.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	5 × 2 mm
IP65H	Heat-shrink tube	5.2 × 2.2 mm
IP65	Silicone tube	7 × 4 mm

Light output and power may vary by up to ±10% due to production and component tolerances.