True Color

SMD

5050 | 18W/m | 12mm

p/n: VFL-TC5050-RGBTW-60-12-24V18

VALS LIGHTING®

Features

- 5-in-1 RGB+Warm white + Cool white
- 24V input
- RGBTW controlled by 5-in-1 PWM controller
- Durable, flexible and low profile
- Double sided 3M tape mounting

CE RoHS COMPLIANT LM80

Electrical Data

Voltage	24V DC
Wattage per meter	**18W**
Current per meter	0.75A/24V

LED Data

LED type	**SMD 5050**
Manufacturer	SAN'AN
Chips per meter	60

Photometric Data

Color temperature	RGB+2700K+6500K
Color redering index Ra	-
Luminous flux per meter	RGBTW: 960 lm
Luminous efficacy	53 lm/W RGBTW
Beam angle	120°
Dimmable	0~100%

Construction / Protection

Substrate	Double layer FPCB
Thickness of FPCB	2 oz
Mounting	Double sided tape 3M
IP rating	See figure 3.
Operating temperature	-25 ~ +50 C°
Storage temperature	-25 ~ +50 C°

Dimensions

Cutting increments	100 mm
	See figure 1.
Length	5,000 mm
Width	12 mm
Height	2.2 mm

Lifetime

Lifespan (L70)	>54,000 hours

Testing environment temperature = 25 C°
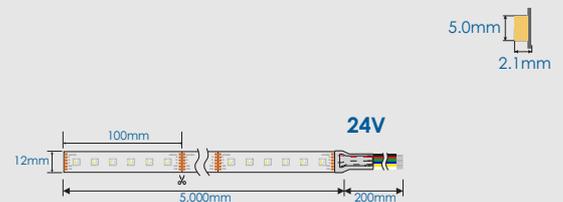
Figure 1.

Dimensions & Cutting increments

5.0mm
2.1mm
100mm
24V
12mm
5,000mm
200mm

Figure 2.

Suitable Accessories

Profile

Surface-Mount
Code: VL-SF1809

Recessed-Mount
Code: VL-RC2510

Corner-Mount
Code: VL-TR2020

Figure 3.

IP Protection Ratings

IP20 (Dry)	IP54 (Damp)	IP65 (Damp)	IP67 (Wet)	IP68 (Outdoor)
2.2mm 12.0mm	3.0mm 12.0mm	4.0mm 14.0mm	4.5mm 14.0mm	4.5mm 14.0mm

- LED
- FPCB
- Silicone Gel
- Double-sided tape 3M 300LSE (indoor)
- Double-sided tape 3M VHB (outdoor)