RGBTW series

COB | 16W/m | 12mm

COB

p/n: VFL-MXCOB-RGBTW-896-12-24V16

VALS LIGHTING®

Features

- 5-in-1 RGB+Warm white + Cool white
- 24V input
- Hotspot-free appearance
- 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	**16W**
Current per meter	0.6A/24V

LED Data

LED type	**COB**
Manufacturer	SAN'AN
Chips per meter	840

Photometric Data

Color temperature	RGB+2700K+6500K
Color redering index Ra	-
Luminous flux per meter	R: 93 lm G: 202 lm B: 46 lm WW: 241 lm CW: 225 lm
Luminous efficacy	15 lm/W WW
Beam angle	135°
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	-20 ~ +45 C°
Storage temperature	-20 ~ +70 C°

Dimensions

Cutting increments	41.6 mm
	See figure 1.
Length	5,000 mm
Width	12 mm
Height	1.6 mm

Lifetime

Lifespan (L70)	>54,000 hours

Testing environment temperature = 25 C°

Figure 1.

Dimensions & Cutting increments

3mm
1.6mm
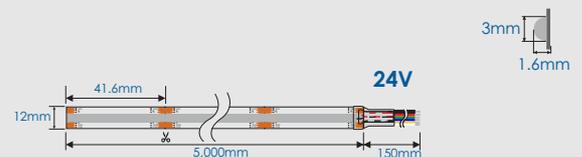41.6mm
12mm
24V
5,000mm
150mm

Figure 2.

Suitable Accessories

Connector

Code: MN-FC-6P-12
Feeding connector with
6-wire cable 150mm

Code: MN-JC-6P-12
Joint connector with
6-wire cable 150mm

Code: MN-MC-6P-12
Middle connector

Profile

Surface-Mount
Code: VL-SF1709

Recessed-Mount
Code: VL-RC2309

Corner-Mount
Code: VL-TR2020

Figure 3.

IP Protection Ratings

IP20 (Dry)	IP54 (Damp)	IP65 (Damp)	IP67 (Wet)	IP68 (Outdoor)
1.6mm / 12.0mm	2.0mm / 12.3mm	4.0mm / 14.0mm	4.0mm / 14.0mm	4.0mm / 14.0mm

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