



FLEXIBLE LED STRIPS PRODUCES 16 MILLION COLORS

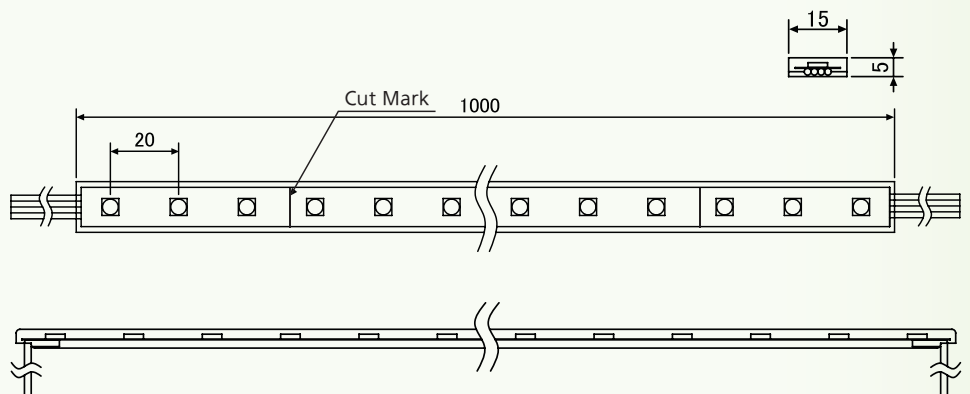


The FLEX RGB series is full color RGB flexible LED module for extremely low-profile spaces where any other LED lamps cannot be applied. The FLEX RGB series is brilliant for both indoor and outdoor with its transparent flexible resin to protect itself against all weather conditions such as rain, snow, direct sun light, and dust. It is conveniently possible to cut by every three lamps to make them fitable into any confined space.

- Long life expectancy is guaranteed up to 42,500 hours maintaining lighting output level at 70% *24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- Extremely small and light solution for confined spaces, indoor and outdoor
- IP65 : Prevents water & dust penetration
- Energy efficient
- Easy on-site installation
- Can be cut and rejoined by every 3 LED lamps

PHYSICAL

Model	Length	Width	Thickness	Weight	Lamp Pitch
FLEX RGB T20100	1000mm	15mm	5.0mm	98g	20 mm (48 Lamps)



OPTICAL CHARACTERISTICS

Model	Color	Luminous Flux (lumen/meter)			Dominant Wave Length & Color Temperature		Viewing Angle 2Θ _{1/2}
		Min	Typical	Max	Min	Max	
FLEX RGB T20100	White		291lm		9,100K	10,000K	120
	Red	86lm		125lm	618nm	624nm	
	Green	187lm		235lm	522nm	524nm	
	Blue	34lm		77lm	462nm	466nm	

*CRI (Color Rendering Index) for white product types is 70 / *Spectral width at half of the peak intensity / *Luminous Flux measuring equipment is CAS140B
 *Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / *CCT 5% tester tolerance
 *Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color
 *Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

ELECTRICAL CHARACTERISTICS

Model	Color	Current Dissipation	Power Dissipation	Operating Power	Maximum Serial Connection
FLEX RGB T20100	Red	415mA	5.0W	DC12V	3 Meters
	Green	303mA	3.6W		
	Blue	320mA	3.9W		
	White	1000mA	12W		

THERMAL

Cooling : Ambient air
 Maximum operating temperature : 60°C (140°F)
 Minimum operating temperature : -25°C (-13°F)
 Maximum storage temperature : 60°C (140°F)
 Minimum storage temperature : -30 C (-22 F)

SAFETY FEATURES

IP65 : Prevents water & dust penetration

CONSTRUCTION

Flexible PCB : Polyimide base with copper circuit
 Protective body : Epoxy filled transparent resin
 LED Lamp : 3-in-1 RGB, 5252
 Number of LED lamps per unit : 48
 Transparency through panel (typical light viewing area) : >94%
 Color : Clear resin body with white PCB

ACCESSORY

Controller: Transmit color signals and control drivers up to 255pcs of drivers
 Driver: Takes color signal from controller and transmit signals to 5 meters of FLEX RGB SERIES-T20100

APPLICATIONS

Open/Close face channel letters
 Reverse halo
 Border lighting
 Point-Of-Purchasing signage
 Art & sculpture and cove lighting

APPROVAL

EN 55015/A2 : 2009
 EN 61547/2009
 EN 62031/2008
 EN 62471/2006



FEATURES



Specifications subject to change without notice