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B13 Derwent Court William Way Moss Industrial Estate Leigh Lancashire WN7 3PT

SEAM Semiconductors

PF5000x10-600DL3838WW/PW

Colour Tuneable Flexible LED Strip

Features

- Colour tuneable Flexible LED light source
- High performance 3838 2-in-1 LED emitters
- High Efficiency >124lm/W
- Easy to cut at intervals
- Wide 120° angle of emission
- 3 SDCM One Bin only
- 3M Adhesive backing tape

Applications: POS Display equipment & Backlighting

Configuration

Parameter	Rating	Unit
LED emitters PLCC 3838 2-in-1	600 pcs 3.8x3.8mm	TOTAL / reel
	120 pcs 3.8x3.8mm	/metre
LED pitch	8.33	mm
Dimensions	5000x10mm cuttable (12v at 25mm intervals) (24V at 50.0mm intervals)	
Termination	4x Flying wire leads 200mm long	
Connection	3 wire PW (6500K) WW (2700K), with Common +ve (Red wire)	

Electrical Characteristics

Parameter	12v Rating	24v Rating	Unit
Input Voltage	12v Typical	24v Typical	Vdc
Current consumption / metre (max)*	1.6A	0.8A	mA/m
Power consumption / metre (max)*	19.2W		W/m
Current consumption / 5M reel (max)	5.0A	2.5A	A/ TOT / reel
Power consumption / 5M reel (max)	60W +/- 5%		W/TOT / reel
Operating Temp	-20 to +45°C (Tc 75°C max)		°C
Storage Temp	-10 to +55°C		°C

* Power based on measurement of 1.0M length wired from one end

Electro-optical characteristics Ta=25°C

LED Chip	CCT typ.	Power Max. / metre *	Luminous Flux Typ. lm/m	CRI	Viewing Angle
Pure White	6500K	9.6W	630	95	120°
Warm White	2700K	9.6W	655		
Pure + Warm White	4000K	19.2W	1270		

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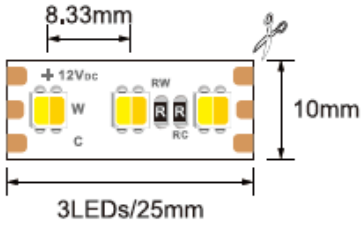
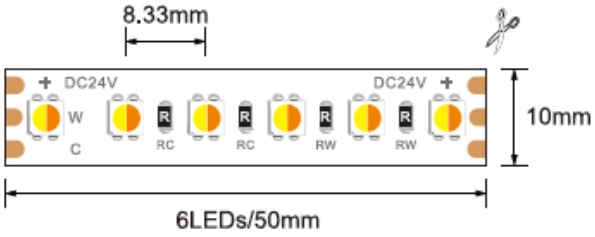
Dimensions

12v Configuration



24V Configuration



Handling notes:

Ensure that the correct low voltage dc power supply is matched to the flexible strip specification

Avoid repeated bending of the strip as this will damage the circuit and components and please observe the maximum bend radius of 30mm

Avoid handling of the surface components in particular the LED emitters as any pressure may result in damage and latent failures.

When cutting IP65 the ingress protection will be compromised please ensure that the assembly is re-sealed accordingly in order to maintain the IP rating

Installation notes:

To achieve a consistent luminous effect, each 5 metre length should be connected to the power source.

To ensure long life we recommend that the strip is kept as cool as possible and environments where the temperature exceeds 40°C should be avoided

It is important to consider ambient temperature rise and to ensure that there is adequate ventilation. We recommend that the LED strips are applied to a heat conducting substrate such as aluminium profile.

High density LED strip is not recommended for use in sealed enclosures where temperatures may rise and heat cannot escape.

Drive & Control:

For control solutions please refer to our range of controllers and drive options which include DMX, RF Wireless, WiFi. More information may be found at http://www.plusopto.co.uk/led-controllers.html

Specifications may be subject to change without notice