

UL File E339817

Applications

- | Part Number | Color | Beam Angle | Dominant Wavelength or CCT | Illumination (lux@0.5m) typ | IP Rating | Housing Material | Wire Gauge |
|-------------|--------|------------|----------------------------|-----------------------------|-----------|------------------|------------|
| OVM12F3R7 | Red | 120° | 623 +/- 3 nm | 20 | 67 | ABS | AWG 20 |
| OVM12F3Y7 | Yellow | | 590 +/- 3 nm | 18 | | | |
| OVM12F3G7 | Green | | 525 +/- 5 nm | 14 | | | |
| OVM12F3B7 | Blue | | 470 +/- 5 nm | 6 | | | |
| OVM12F3W7 | White | | 5000 to 7000 K | 16 | | | |



3 LED Module (30 modules / string)

Absolute Maximum Ratings (T_A = 25° C unless otherwise noted)

Storage Temperature Range	-40 ~ +80 °C
Operating Temperature Range	-30 ~ +50 °C
Input Voltage	15 V
Power Dissipation	1.5 W
LED Junction Temperature	125 °C
Electrostatic Discharge Classification (JEDEC-JESD22-A114F)	Class 1C

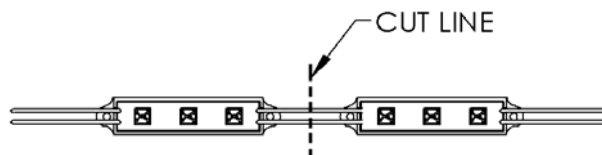
Notes:

1. Lead Solder time less than 10 seconds at temperature extreme.
2. No Heat sink is required if the string is operated at ambient temperature < 35°C. For long term performance the drive voltage at 12 V is recommended. Please contact an Optek sales representative for more information on recommended drive conditions.

Electrical & Mechanical Characteristics / module (T_A = 25° C unless otherwise noted)

SYMBOL	Notes	MIN	TYP	MAX	UNITS	CONDITIONS
Power Consumption	Red/Yellow Green/Blue/White		0.5 0.3	---	W	V _{DC} = 12 V
V _{DC}	Input Voltage	---	12	---	V	
Net Weight		---	16	---	g	Per module
λ _D	Dominant Wavelength	---	See chart			
2 Θ½	50% Power Angle	----	120	----	deg	V _{DC} = 12 V

If an entire string is not required for the application, clip wires at mid-span:

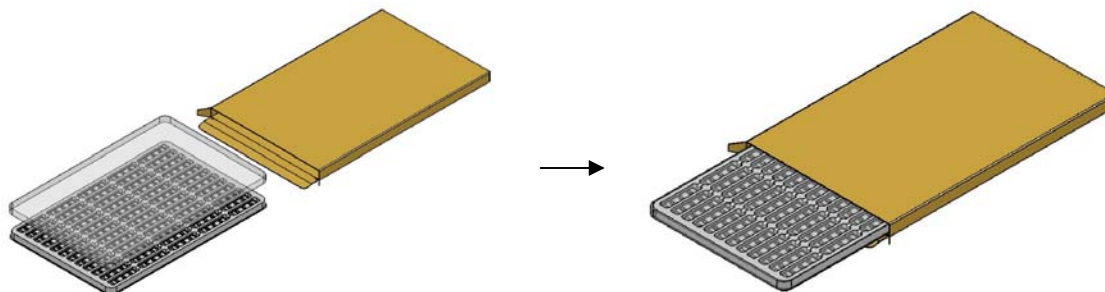


Modules can be secured onto a mounting surface with two #6 screws. Modules are waterproof and can be used outdoors. The installer is responsible for waterproofing the connection to the power source. The installer is also responsible for the use of an exterior approved power source.

Package Information:

1 tray contains 2 strings of 30 modules each.

Modules are packaged 60 per tray.



OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

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[OVM12F3W7 \(15 Modules\)](#)