

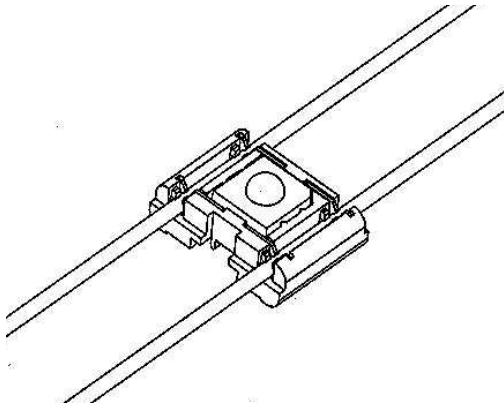
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### Features

- High luminance
- Long life
- Low voltage
- Low power
- Meets UL safety standard
- Robust plastic and metal construction

### Benefits

- Attractive colors indoors and outdoors
- Electricity savings
- Maintenance savings
- Safe installation, operation, and disposal
- Easy shipping and handling



HLCR-MS00-R0000  
HLCR-MS00-H0000  
HLCR-MS00-A0000  
HLCR-MC00-00000

### Description

The Super Flux IDC product comprises a Super Flux LED lamp (HPWT series) inserted into a plastic carrier module. In addition, this module incorporates IDC (Insulation Displacement Connector) design.

Super Flux IDC modules can be connected in various configurations by inserting 18 gauge insulated wire into the module. This capability greatly enhances ease of use since no solder or circuit board is required.

Super Flux IDC presents a new dimension of flexibility for manufacturers of signs, signals, and specialty lighting.

## Selection Guide - Modules

Part Number	Color	Description
HLCR-MS00-R0000	Red	Super Flux IDC LED Module (Bag of 120 modules)
HLCR-MS00-H0000	Red-Orange	Super Flux IDC LED Module (Bag of 120 modules)
HLCR-MS00-A0000	Amber	Super Flux IDC LED Module (Bag of 120 modules)
HLCR-MC00-00000	N/A	IDC connector module (Bag of 120 modules)

### Absolute Maximum Ratings at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Max Rating	Units
DC forward current <sup>[1, 2]</sup>	70	mA
Power Dissipation	221	mW
Reverse Voltage (I <sub>r</sub> =100mA)	10	V
Operating Temperature Range	-40 to 100	°C
Storage Temperature Range	-55 to 100	°C
LED junction temperature	125	°C

1. Derate as appropriate
2. Operation at current less than 10 mA is not recommended

### Optical Characteristics at $T_a = 25\text{ }^\circ\text{C}$ , $I_f = 70\text{ mA}$ , and $R_{j-a} = 200\text{ }^\circ\text{C/W}$

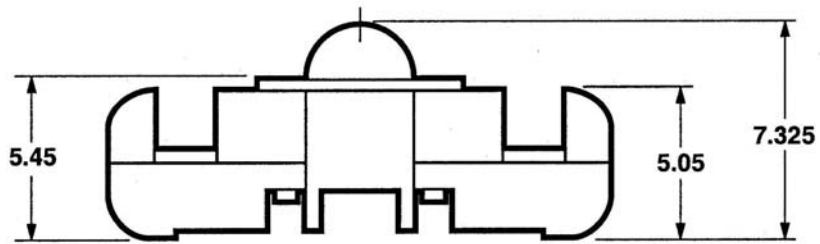
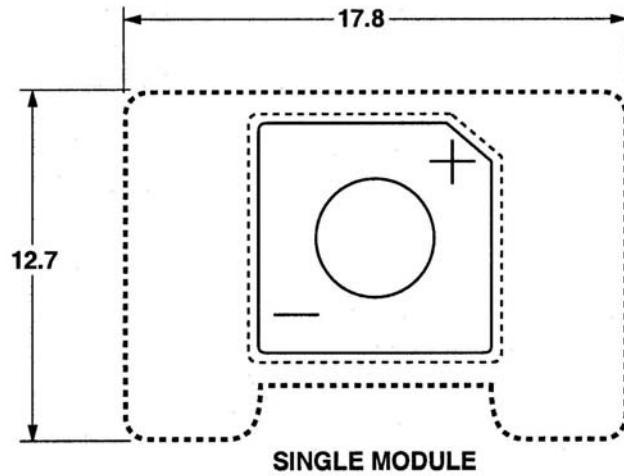
Part Number	Min. Flux <sup>[1]</sup> (lm)	Typ. Flux (lm)	Dominant Wavelength <sup>[2]</sup> (nm)	Total Included Angle <sup>[3]</sup> (deg.)	Typ. Luminous Intensity (I <sub>v</sub> ) / Total Flux (cd/lm)	Viewing Angle $2 \times \theta_{1/2 I_v}$ (deg.)
HLCR-MS00-R0000	1.0	3.0	630	100	0.6	70
HLCR-MS00-H0000	1.0	3.8	620	100	0.6	70
HLCR-MS00-A0000	1.0	1.5	594	100	0.6	70

1. Total luminous flux is measured in an integrating sphere after the device has thermally stabilized
2. The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the light emitted
3. Total Included Angle is the angle within which 90% of the total luminous flux radiates

### Electrical Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Part Number	Min. Voltage (V)	Typ. Voltage (V)	Max. Voltage (V)	Thermal Resistance, junction-ambient (°C/W)
HLCR-MS00-R0000	2.15	2.5	3.03	200
HLCR-MS00-H0000	2.15	2.5	3.03	200
HLCR-MS00-A0000	2.15	2.6	3.15	200

# Drawing - LED Module



**DIMENSIONS IN MILLIMETERS**

# LUMILEDS

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Lumileds Lighting is a joint venture between Philips Lighting and Agilent Technologies.

Agilent Technologies, an \$8 billion startup, is the result of the strategic realignment of Hewlett-Packard, producer of the world's brightest red and amber LEDs, as well as state-of-the-art, high-brightness LEDs in blue, green, white, and other colors.

Philips is a global leader in developing, manufacturing and marketing innovative lighting products worldwide.

Lumileds Lighting is changing the future of lighting by inventing new lighting technologies for a wealth of commercial, industrial, institutional, and consumer applications. By combining the lighting expertise of Philips and the LED technology strength of Agilent, our products bring value to lighting solutions of all kinds. Lumileds Lighting reduces waste and power consumption worldwide by developing long-lasting, energy-efficient products.

### **Lumileds Lighting**

An Agilent Technologies & Philips Lighting Joint Venture

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