



A Philips Lighting and Agilent Technologies Joint Venture

HLCS-KR_{xx} HLCS-KG_{xx}
HLCS-KA_{xx} HLCS-KB_{xx}
HLCS-KP_{xx}

Data Sheet

ChipStrip Lighting – v3.0

Features

- **Polycarbonate Strip of Light**
- **LED-Based Solid State Lighting**
- **Low Voltage (40 V)**
- **Mounting with Double Sided Tape or Screws**
- **Modular Design**
- **Rugged, Impact-Resistant**
- **Wide Operating Temperature Range**

Benefits

- **Easy to Transport, No Glass to Break**
- **Uniform Color Appearance**
- **Safe for Use Anywhere – No High Voltages or Toxic Materials**
- **Minimal Maintenance**
- **Low Operating Costs**
- **Long Life (5 Years or More)**

Description

The ChipStrip Contour Lighting Product is comprised of a linear array of solid state light emitting diodes (LEDs) mounted on an elongated printed circuit board. This board is encased inside a translucent plastic housing, which is sealed at its two ends. The ChipStrip unit has interconnects at each end, which allows for easy modular interconnectivity, either to a power source or an adjacent ChipStrip unit.

A series of these ChipStrip units can be mounted end-to-end (or in an X, Y, or T branch configuration) along the roof or edge of a building to produce a bright, continuous contour of light, similar to neon, but consuming only a fraction of the power that neon consumes.

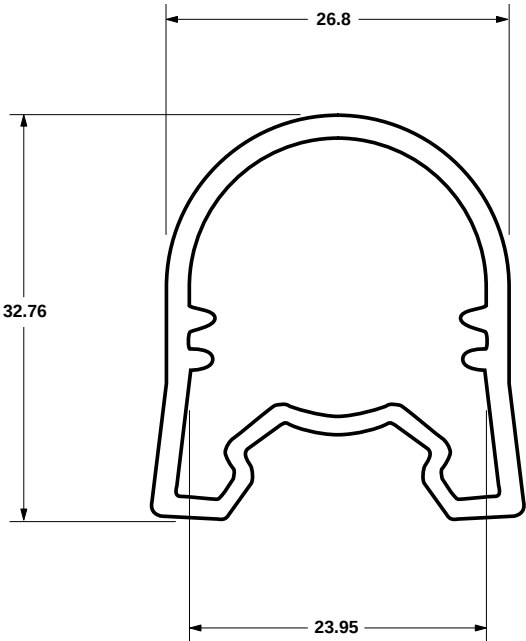
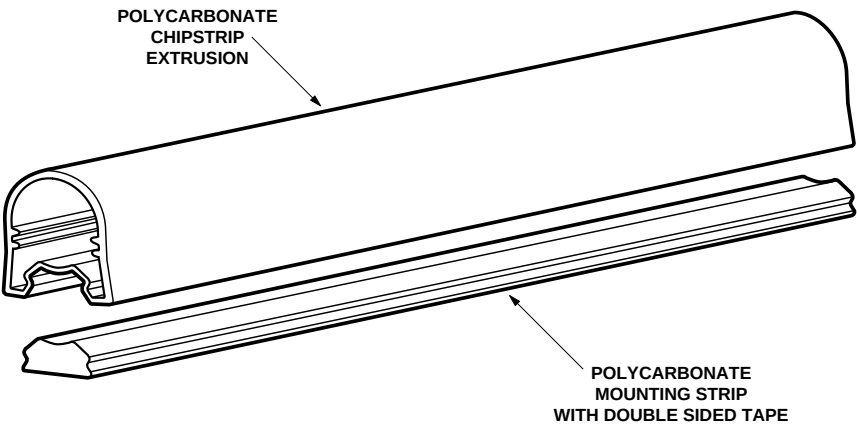
ChipStrip is made with an advanced optical grade polycarbonate lens, which offers superior high temperature and moisture resistance performance in outdoor environments. The polycarbonate extrusion lens material is tough and impact resistant. In addition, the polycarbonate lens is doped with UV-a and UV-b inhibitors to reduce the effects of long-term exposure to direct sunlight.

ChipStrip is available in a variety of colors: red, amber, orange, green, and blue. It is also available in two cross-sectional styling options: semicircular, or round, each with its own attachment mechanism to a building. The semicircular extrusion is ideal for flat surfaces, such as a parapet, while the round extrusion was designed for uneven surfaces such as stucco.

The ChipStrip is made in custom lengths to order, and all fittings can be neatly concealed. Thus, each installation is customized for a location.

Package Dimensions

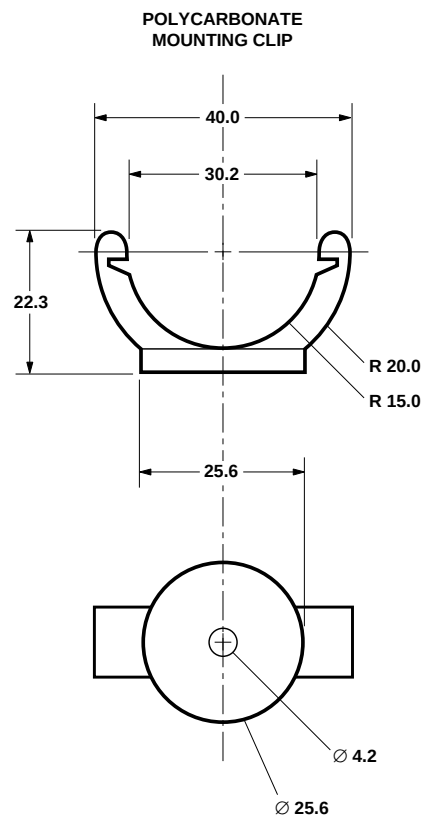
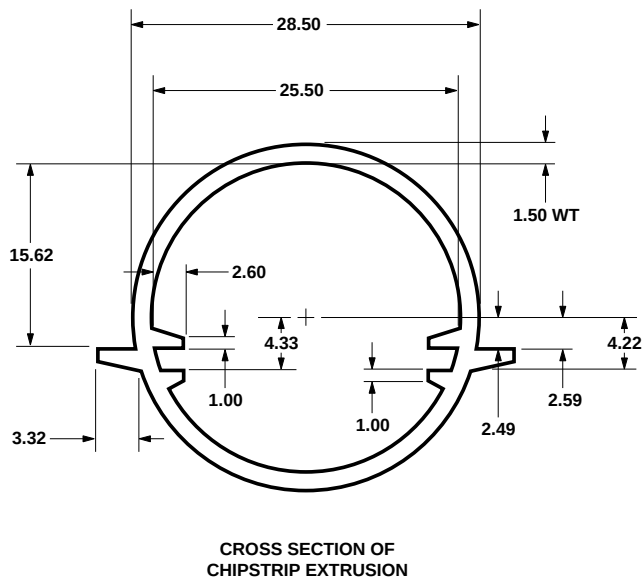
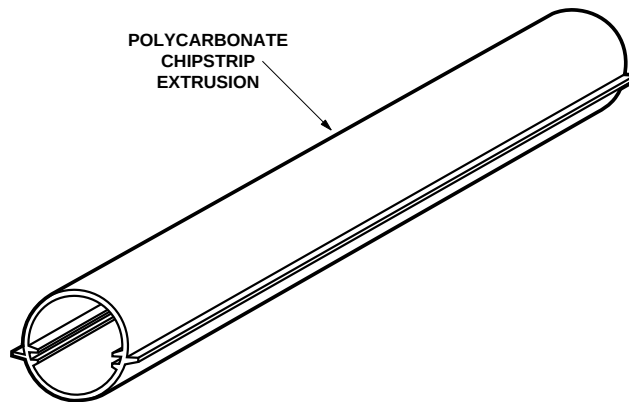
Semicircular



CROSS SECTION OF
CHIPSTRIP EXTRUSION

Package Dimensions

Round + Clip



Mechanical Characteristics

Outside Diameter	Typical	Units
Semicircular	26.80	mm
Round	28.50	mm

Electrical Characteristics

Parameter	Typical	Units
Voltage		
Red-Orange (v3.0)	32	V
Blue-Green (v3.0)	48	V
Current	0.14	A/m
Max. Run Length	40	m
Power Dissipation (Pd)		
Red, Amber, Orange	4.48	W/m
Blue, Green	6.72	W/m

Temperature Ratings

Storage Temperature	
Power Supply	-20°C to +85°C
All other components	-40°C to 100°C
Operating Temperature	
Power Supply	-10°C to +60°C
All other components	-40°C to 85°C

Optical Characteristics

Dominant Wavelength (λ_{dom})	Typical	Units
Red	626	nm
Amber	590	nm
Orange	605	nm
Green	526	nm
Blue	472	nm

Luminance (L)	Typical	Units
Red	100.0	cd/m ²
Amber	32.0	cd/m ²
Orange	48.0	cd/m ²
Green	52.0	cd/m ²
Blue	19.0	cd/m ²

Selection Guide

Part Number	Color	Units
HLCS-KR99	Red	Feet
HLCS-KR88	Red	Meters
HLCS-KA99	Amber	Feet
HLCS-KA88	Amber	Meters
HLCS-KP99	Orange	Feet
HLCS-KP88	Orange	Meters
HLCS-KB99	Blue	Feet
HLCS-KB88	Blue	Meters
HLCS-KG99	Green	Feet
HLCS-KG88	Green	Meters



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**LumiLeds Lighting:
The Revolution of Lighting.**

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. In the next century, LED-based lighting will quickly replace conventional lighting 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 will bring irresistible value to lighting solutions of all kinds. LumiLeds Lighting will reduce 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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Data subject to change.

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Obsoletes Publication No. DS17 (6/00)

Publication No. DS17 (7/00)