



Spencer Yachts

## LED REPLACEMENT BULBS

Imtra's high output LED replacement bulbs deliver the performance necessary to properly convert your halogen or incandescent fixtures to energy-efficient LED lights.

All models are offered in warm white to emit the soft tones most people prefer for interior yacht applications. Select models are available in cool white, red or blue for specialty applications.

All our LED bulbs feature PWM constant-current drive topology delivering high performance across the entire voltage range. Thermally-efficient SMDs and built-in electrical protections combine to deliver maximum service life.



Hunt Yachts

### Key Features

- High output SMD LEDs
- PWM DC/DC converter technology
- Thermally efficient board design
- Over-voltage protection
- Several form factors to choose from

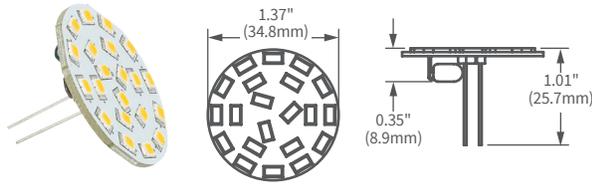
### Benefits

- Substantial power savings
- High quality, bright light output
- Cooler cabin temperatures
- Maintenance-free; no more bulb changes

# G4/GU4 SOCKET

Our G4/GU4 LED replacement bulbs make excellent upgrades for boats fitted with dual pin halogen bulbs.

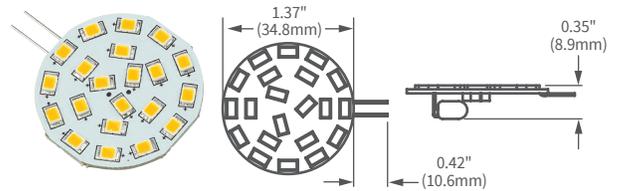
## “Corona” Back Pin



**Application:** bunk, reading or chart lights with back pin halogen sockets.

Single colors	Warm, Cool
Halogen equivalency	20W
Voltage input	10-30VDC
Power consumption	3.0W
Viewing angle	120°

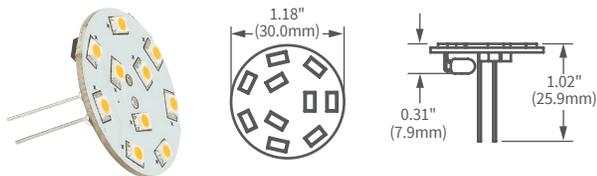
## “Corona” Side Pin



**Application:** large overhead spots or fixtures with side pin halogen sockets.

Single colors	Warm, Cool
Halogen equivalency	20W
Voltage input	10-30VDC
Power consumption	3.0W
Viewing angle	120°

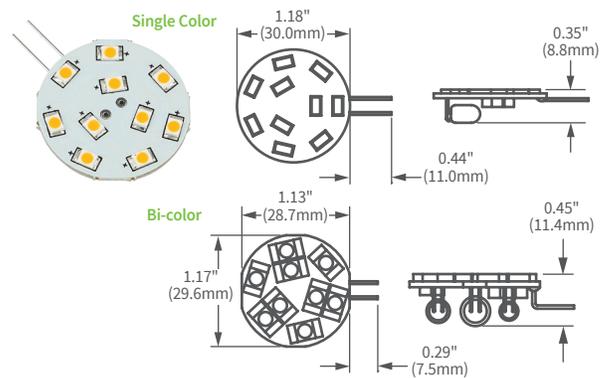
## “X-Beam” Back Pin



**Application:** mid-size overhead spots, fixtures & reading/chart lights with back pin halogen sockets.

Single colors	Warm, Cool, Blue
Halogen equivalency	15W
Voltage input	10-30VDC
Power consumption	2.2W
Viewing angle	120°

## “X-Beam” Side Pin



**Application:** mid-size overhead spots and fixtures with side pin halogen sockets.

Single colors	Warm, Cool
Bi-colors	Warm/Red, Cool/Blue
Halogen equivalency	15W
Voltage input	10-30VDC
Power consumption	2.2W
Viewing angle	120°

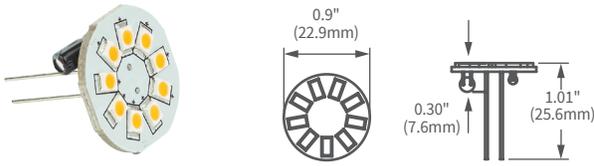


Tiara Yachts

# G4/GU4 SOCKET

Our G4/GU4 LED replacement bulbs make excellent upgrades for boats fitted with dual pin halogen bulbs.

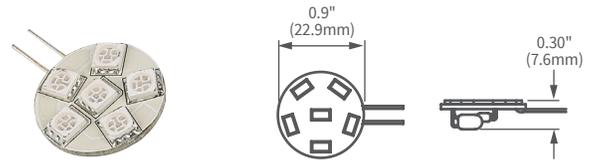
## “Mini” Back Pin



**Application:** smaller spots & reading/chart lights.

Single colors	Warm, Cool, Blue
Halogen equivalency	10W
Voltage input	10-30VDC
Power consumption	2.2W
Viewing angle	120°

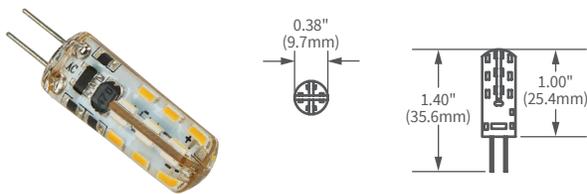
## “Mini” Side Pin



**Application:** smaller spots with side pin halogen sockets.

Single colors	Red, Blue
Halogen equivalency	10W
Voltage input	10-30VDC
Power consumption	1.5W
Viewing angle	120°

## Omni-Directional “Bullet” Back Pin



**Application:** wall sconces, appliques & pendant lights where all-around light output is desired.

Single color	Warm
Halogen equivalency	15W
Voltage input	10-30VDC
Power consumption	2.0W
Viewing angle	360°

## G4 Adapters for Bayonet Sockets



**Application:** Convert your existing #1156 (Single Contact) or #1142 (Double Contact) socket to G4 bi-pin. The swivel feature allows a side pin G4 bulb to be rotated so it is pointing in the correct direction regardless of socket orientation.



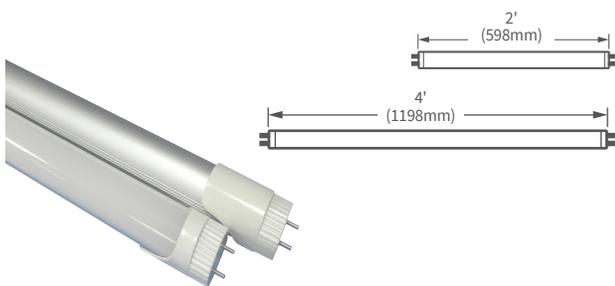


Hatteras Yachts

## G13 (T8-T12) SOCKET

Our 2' and 4' T8 lamps replace legacy T8/T10/T12 fluorescent lamps for superior flicker-free and "dotless" illumination.

### G13 (T8-T12) Socket



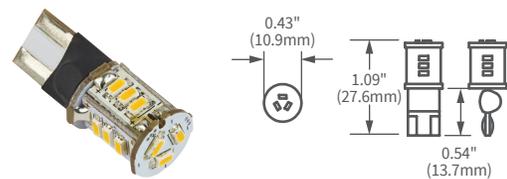
**Application:** UL-approved LED retrofit for 2' and 4' T8, T10 and T12 fluorescent lamps, patented rotating end cap.

Single color	Cool
Halogen equivalency	13W/25W fluorescent
Voltage input	100-240VAC (2'), 100-277VAC (4'); 50/60Hz
Power consumption	11W (2'), 20W (4')
Viewing angle	120°

## WEDGE SOCKET

This micro-designed LED replacement bulb replaces T10 wedge bulbs with 9.5mm sockets.

### "Micro Tower" for T10 (9.5mm) Wedge Bulbs



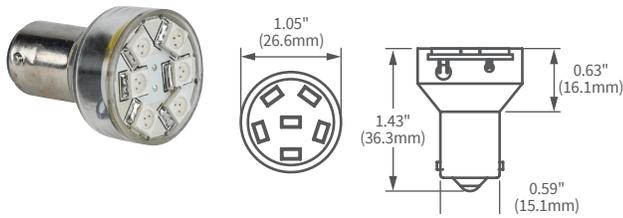
**Application:** courtesy, navigation lights

Single colors	Warm, Cool
Halogen equivalency	10W
Voltage input	10-30VDC
Power consumption	1.0W
Viewing angle	360°

## BA15D/BA15S SOCKET

Our “Mini” and “Tower” Bayonet base LED bulbs replace bulbs commonly found in reading and wall lights.

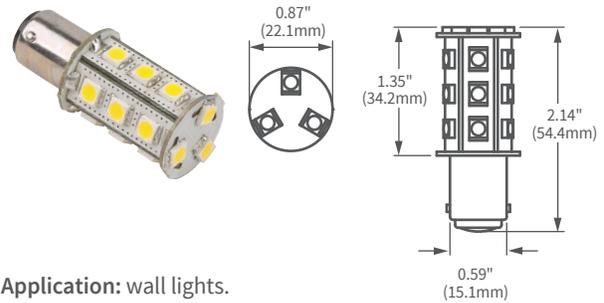
### “Mini” Bayonet Base



**Application:** reading lights. Offered in single and double contact versions.

Single colors	Warm, Red
Halogen equivalency	10W
Voltage input	10-30VDC
Power consumption	1.5W
Viewing angle	120°

### “Tower” Omni-Directional Bayonet Base



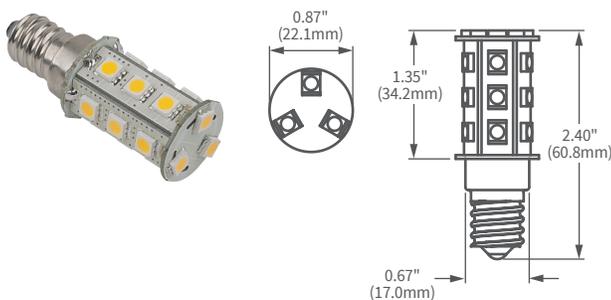
**Application:** wall lights.

Single color	Warm
Halogen equivalency	20W
Voltage input	10-30VDC
Power consumption	3.0W
Viewing angle	360°

## E14 SOCKET

Omni-directional bulb fits European miniature screw base.

### “Tower” Omni-Directional E14 Base



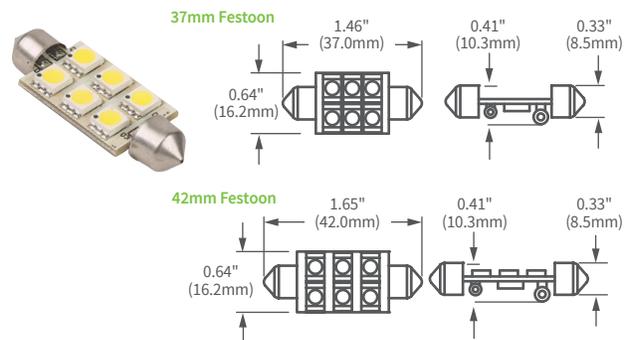
**Application:** European-style wall appliques, sconces, table lamps.

Single color	Warm
Halogen equivalency	20W
Voltage input	10-30VDC
Power consumption	3.0W
Viewing angle	360°

## FESTOON SOCKET

Available in 37 or 42mm (SV8.5) sizes.

### 37mm & 42mm Festoon



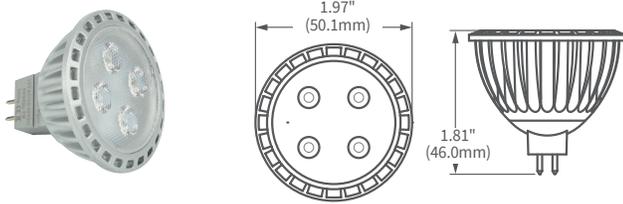
**Application:** many courtesy lights, overhead “dome” lights.

Single colors	(37mm) Warm (42mm): Warm, Red, Blue
Halogen equivalency	10W
Voltage input	10-30VDC
Power consumption	1.5W
Viewing angle	120°

## GU5.3 SOCKET

High output LEDs combined with special “4-up” optical lens provide uniform and satisfying illumination.

### MR16 Back Pin

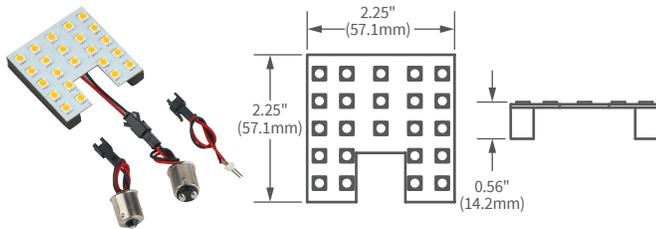


**Application:** uniform and satisfying illumination replacing 20W or 35W halogens.

Single colors	Warm, Cool
Halogen equivalency	30W
Voltage input	10-30VDC
Power consumption	5W
Viewing angle	30°

## BA15D/BA15S/G4 SOCKETS

### G4 & Bayonet LED Arrays



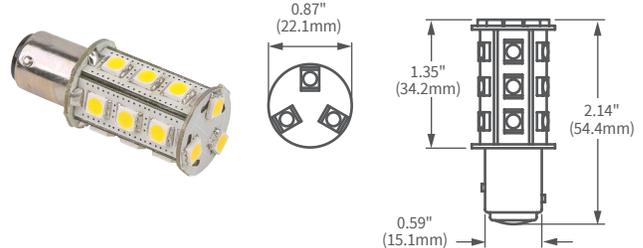
**Application:** 5" or 6" dome lights, recessed fixtures.

Single color	Warm
Halogen equivalency	20W
Voltage input	10-30VDC
Power consumption	2.7W
Viewing angle	120°

## BAY15D NAVIGATION

Our “Tower” Navigation LED bulb uses 18 high output SMD LEDs for 360° visibility. Bulbs exceed COLREGS 3nm visibility requirements for vessels up to 20m.\*

### Navigation



**Application:** all-around or anchor lights. Replaces Aqua Signal NO90005, Hella NO78290, Perko 0375 12V 10W. Use warm white with colored lens fixtures.

Single colors	Warm, Cool
Halogen equivalency	10W
Voltage input	10-30VDC
Power consumption	3.0W
Viewing angle	360°

\*Navigation lights are tested and approved as a fixture with the original equipment source (bulb) already installed. The operator of vessel assumes all liability when using this product as a replacement for the original approved light source. The use of this LED light source in individual navigation fixtures has not been evaluated for compliance to USCG, COLREG or any other navigational lighting standards or regulations.



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