

**CAPABILITY**  
**DESIGN,**  
 MANUFACTURE & DISTRIBUTION



**AGILITY**  
**FLEXIBILITY**  
 AND RAPID  
 RESPONSE

**EXPERIENCE**  
 OVER  
 40 YEARS

## LED Product Selector Guide

it's in our DNA

For over 40 years, Marl has been adapting leading LED technology to provide innovative, attractive, functional and cost-effective solutions. State-of-the-art in house design and manufacturing facilities, combined with agility, speed, flexibility and willingness to respond to both needs and expectations as projects evolve and mature through the entire product life cycle.

Marl's Product Range includes LED indication, LED lighting systems, LED modules and components; and this Product Selector Guide provides an overview of the core products. These are ideal for a huge and varied range of professional applications, from system status indication, portable equipment, command and control systems and ruggedised industrial equipment, which all demand a combination of high performance and outstanding reliability. The Company also offers custom design and manufacturing services including electromechanical assembly, and a vast array of electrical and environmental facilities. Technical data sheets are available on the Marl website, for samples and to arrange technology demonstrations, please make contact with the highly experienced sales team.

### PCB Mounting LEDs:

#### 103 Series



Ø3.0mm Diffused LED  
 90° Single Moulded Housing  
 Range of LED Colours  
 Range of Voltage Options  
 Low Current Options Available  
 UL94 V-0 Flammability Rating  
 Reverse Polarity Options Available

#### 104 Series



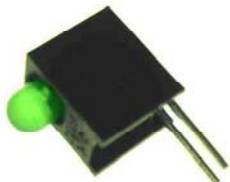
Ø5.0mm Diffused LED  
 90° Single Moulded Housing  
 Range of LED Colours  
 Bi-Colour Options Available  
 Range of Voltage Options  
 Low Current Options Available  
 UL94 V-0 Flammability Rating

#### 109 Series



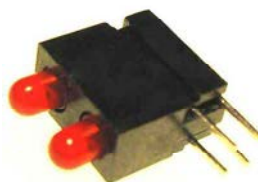
Ø3.0mm Diffused LED  
 90° Duplex Moulded Housing  
 Range of LED Colours  
 Bi-Colour Options Available  
 Range of Voltage Options  
 Low Current Options Available  
 UL94 V-0 Flammability Rating

#### 113 Series



Ø3.0mm Diffused LED  
 90° Single Moulded Housing  
 Range of LED Colours  
 Range of Voltage Options  
 Low Current Options Available  
 UL94 V-0 Flammability Rating  
 Reverse Polarity Options Available

#### 122 Series



Ø3.0mm Diffused LED  
 90° Duplex Moulded Housing  
 Range of LED Colours  
 Bi-Colour Options Available  
 Low Current Options Available  
 Suitable for Auto-Insertion  
 UL94 V-0 Flammability Rating

#### 151 Series



Ø5.0mm Diffused LED  
 90° Single Moulded Housing  
 Red/Green Bi-Colour LED  
 Red/Amber/Green Tri-Colour LED  
 Diffused Lens - Wide Angle Viewing  
 UL94 V-0 Flammability Rating  
 Reduced Power Consumption

# LED Bulb Replacements:



## 202 Series



T1 Midget Flange SX3s  
 Range of LED Colours  
 High Intensity LEDs, Flat Topped  
 Wide Viewing Angle for Switches  
 Internal Resistor - Voltage Options  
 Centre Contact Anode as Standard  
 Reverse Polarity Options Available

## 205 Series



T1¼ Midget Groove S5.7s  
 Range of LED Colours  
 High Intensity LEDs, Flat Topped  
 Wide Viewing Angle for Switches  
 Internal Resistor - Voltage Options  
 Centre Contact Anode as Standard  
 Reverse Polarity Options Available

## 206 Series



T1¼ Midget Flange SX6s  
 Range of LED Colours  
 High Intensity LEDs, Flat Topped  
 Wide Viewing Angle for Switches  
 Internal Resistor - Voltage Options  
 Centre Contact Anode as Standard  
 Reverse Polarity Options Available

## 215 Series



T3¼ Bayonet Automobile Cap BA9s  
 Range of LED Colours  
 High Intensity LEDs, Flat Topped  
 Wide Viewing Angle  
 Internal Resistor - Voltage Options  
 Centre Contact Anode as Standard  
 Reverse Polarity Options Available

## 225 Series



BA15d Mounting Cap  
 Range of LED Colours  
 6 High Intensity LEDs, Multi-Cluster  
 Narrow Viewing Angle  
 Internal Resistor - Voltage Options  
 Bi-Polar Termination  
 Durable to Shock and Vibration

## 255 Series



T3¼ Bayonet Automobile Cap BA9s  
 Range of LED Colours  
 High Intensity LEDs, Flat Topped  
 Wide Viewing Angle  
 Voltage Input: 8 - 48Vac/dc  
 Bi-Polar Termination  
 Durable to Shock and Vibration

## 235 Series



T1¼ Midget Groove S5.7s  
 Range of LED Colours  
 Surface Mount LED Technology  
 Wide Viewing Angle for Switches  
 Internal Resistor - Voltage Options  
 Bi-Polar AC/DC Termination  
 Durable to Shock and Vibration

## 236 Series



T1¼ Midget Flange SX6s  
 Range of LED Colours  
 Surface Mount LED Technology  
 Wide Viewing Angle for Switches  
 Internal Resistor - Voltage Options  
 Bi-Polar AC/DC Termination  
 Durable to Shock and Vibration

## 258 Series



T6.8 Slide Base  
 Range of LED Colours  
 High Intensity LEDs, Flat Topped  
 Wide Viewing Angle  
 Voltage Input: 8 - 48Vac/dc  
 Bi-Polar Termination  
 Durable to Shock and Vibration

## Sealed LED Panel Indicators:

### 508 Series



Ø8.1mm Mounting  
Bright Nickel Plated Brass Housing  
Smoked Lens - Good On/Off Ratio  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 512 Series



Ø12.7mm (½") Mounting  
Bright Nickel Plated Brass Housing  
Smoked Lens - Good On/Off Ratio  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 514 Series



Ø12.7mm (½") Mounting  
Bright Nickel Plated Brass Housing  
Raised Coloured Diffused Lens  
Range of LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 520 Series



Ø6.1mm Countersunk Mounting  
Robust Stainless Steel Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 524 Series



Ø8.1mm Mounting  
Robust Stainless Steel Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 525 Series



Ø8.1mm Mounting  
Bright Nickel Plated Brass Housing  
White Lens - Good On/Off Ratio  
Multi LED Colours - Single Indicator  
Input 12Vdc - 4 Wire Termination  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 528 Series



Ø12.7mm (½") Mounting  
Robust Stainless Steel Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 531 Series



Ø12.7mm (½") Mounting  
Bright Nickel Plated Brass Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Bi-Polar AC/DC - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

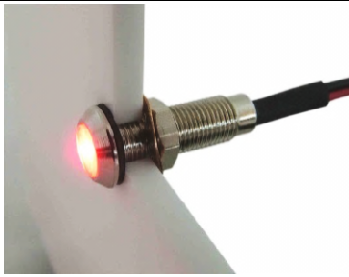
### 534 Series



Ø8.1mm Mounting  
Robust Stainless Steel Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Bi-Polar AC/DC - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

## Sealed LED Panel Indicators:

### 604 Series



Ø5.0mm Mounting  
Bright Nickel Plated Brass Housing  
Smoked Lens - Good On/Off Ratio  
High Intensity LED Colours  
Voltage Options - Wire Termination  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 612 Series



Ø6.35mm (¼") Mounting  
Black Anodised Aluminium Housing  
Smoked Lens - Good On/Off Ratio  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 665 Series



Ø8.5mm Mounting  
Hard Anodised Aluminium Housing  
Unique PTFE Panel Seal  
High Intensity LED Colours  
20mA Operation - Wire Termination  
Sealed to IP68-10psi Weatherproof  
Durable to Harsh Environments

### 671 Series



Ø25.4mm (1") Mounting  
Black Anodised Aluminium Housing  
Raised Diffused Lens  
High Intensity LED Colours  
High Voltage 24Vac/dc - 440Vac/dc  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 677 Series



Ø8.1mm Mounting  
Black Anodised Aluminium Housing  
Smoked Lens - Good On/Off Ratio  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 690 Series



Ø9.6mm (3/8") Mounting  
Black Anodised Aluminium Housing  
UL Certified - No: E349017  
High Intensity LED Colours  
Voltage Input: 8-48Vac/dc Bi-Polar  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 696 Series



Ø6.1mm Countersunk Mounting  
Black Anodised Aluminium Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Internal Resistor - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 698 Series



Ø8.1mm Mounting  
Black Anodised Aluminium Housing  
Smoked Lens - Good On/Off Ratio  
High Intensity LED Colours  
Bi-Polar AC/DC - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

### 699 Series



Ø12.7mm (½") Mounting  
Black Anodised Aluminium Housing  
Coloured Diffused Lens  
High Intensity LED Colours  
Bi-Polar AC/DC - Voltage Options  
Sealed to IP67 - Weatherproof  
Durable to Shock and Vibration

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