

CBI[®] Through Hole

Circuit Board Indicator Selector Guide



Clear Innovation

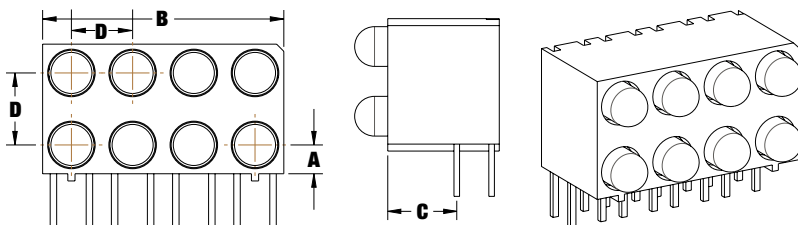
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Index

2mm		4mm	
2mm LED CBI	3	4mm LED CBI	8
2mm Quad LED CBI	3	4mm Bi-Level LED CBI	8
2mm Bi-Level LED CBI	3	2mm x 4mm Rectangular Bi-Level LED CBI	8
2mm Bi-Level Ganged Array LED CBI	3	2mm x 4mm Quad Rectangular Bi-Level LED CBI	8
2mm Tri-Level LED CBI	3	2mm x 4mm Rectangular Quad-Level LED CBI	8
3mm		2mm x 5mm Rectangular LED CBI	8
3mm LED CBI	4	5mm	
3mm 3-Leaded Bi-Color LED CBI	4	2mm x 7mm Rectangular LED CBI	9
3mm Bi-Level 3-Leaded CBI	5	5mm LED CBI	9
3mm Tri-Block LED CBI	5	5mm 3-Leaded Bi-Color LED CBI	10
3mm Quad LED CBI	5	5mm 3-Leaded Bi-Color LED CBI, Offset Cathode	10
3mm Bi-Level LED CBI	5	5mm Dual LED CBI	10
3mm Ganged Array LED CBI	6	5mm Tri-Block LED CBI	10
3mm High Density Narrow Bi-Level LED CBI	6	5mm Quad LED CBI	11
3mm Bi-Level Array LED CBI	6	5mm Bi-Level LED CBI	11
3mm Bi-Level LED CBI Backlighting	6	5mm 4-Leaded Tri-Color R/G/B LED CBI	11
3mm Tri-Level LED CBI	7	Circuit Board Indicators	12
3mm Quad-Level LED CBI	7	Panel Mount Indicators	13

Dimension Descriptions



- A** The dimension from the center of the LED to the top of the circuit board.
- B** The dimension of the pitch required to mount multiple parts.
Note: The drawing to the left shows the width of the product. The pitch required is slightly larger to allow for clearance between adjacent parts.
- C** The dimension from the front of the housing to the center of the first lead.
- D** The dimension between LEDs, center to center.
Note: When applicable, both horizontal and vertical dimensions are given.

2mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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2mm LED CBI

	555-2xxxF	0.125 (3.18mm)	0.100 (2.54mm)	0.040 (1.02mm)	-	● R ● G ● Y	Integral Resistor 5V, 24V
	555-3xxxF	0.250 (6.35mm)	0.100 (2.54mm)	-	-	● R ● G ● Y	Integral Resistor 5V, 24V

2mm Quad LED CBI

	555-4xxxF	0.125 (3.18mm)	0.405 (10.29mm)	0.040 (1.02mm)	0.098 (2.48mm)	● R ● G ● Y	Integral Resistor 5V, 24V
	555-5xxxF	0.250 (6.35mm)	0.405 (10.29mm)	-	0.098 (2.48mm)	● R ● G ● Y	Integral Resistor 5V, 24V

2mm Bi-Level LED CBI

	571-01xxF	0.100 (2.54mm)	0.100 (2.54mm)	0.190 (4.83mm)	.150 (3.81mm)	● R ● R ● R ● G ● G ● G ● Y ● G ● Y ● Y	-
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2mm Bi-Level Ganged Array LED CBI

	571-01xx-10xF	0.100 (2.54mm)	0.100 (2.54mm)	0.190 (4.83mm)	.150 (3.81mm)	● R ● R ● R ● G ● G ● G ● Y ● G ● Y ● Y	-
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2mm Tri-Level LED CBI

	570-0100-xxxF	.070 (1.78mm)	.200 (5.08mm)	.269 (6.84mm)	.130 (3.30mm)	● R ● R ● R ● R ● Y ● G ● G ● G ● G ● Y ● Y ● Y	(DIN 41494 compatible)
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3mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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3mm LED CBI

	551-xx01F	0.197 (5mm)	0.200 (5.08mm)	0.269 (6.84mm)	-	● G ● Y ● R ● B ● O	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity (DIN 41494 compatible)
	551-xx02F	0.1 (2.54mm)	0.175 (4.45mm)	0.27 (6.86mm)	-	● G ● Y ● R	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity
	551-xx03F	0.25 (6.35mm)	0.185 (4.70mm)	0.14 (3.6mm)	-	● G ● Y ● R ● B	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity
	551-xx04F	0.45 (11.4mm)	0.185 (4.70mm)	0.14 (3.6mm)	-	● G ● Y ● R ● B	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity
	551-xx07F	0.2 (5.08mm)	0.175 (4.45mm)	0.175 (4.45mm)	-	● G ● Y ● R ● B ● O	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity
	551-xx09F	0.12 (3.05mm)	0.165 (4.19mm)	0.16 (4.06mm)	-	● G ● Y ● R ● B ● O	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity
	551-xx11F	0.2 (5.08mm)	0.165 (4.19mm)	0.247 (6.27mm)	-	● G ● Y ● R ● B	Low Current (DIN 41494 compatible)

3mm 3-Leaded Bi-Color LED CBI

	551-3508-801NF	0.15 (3.81mm)	0.2 (5.08mm)	0.18 (4.57mm)	-	● R ● G	-
	551-3513F	0.1 (2.54mm)	.300 (7.62mm)	0.2 (5.08mm)	-	● R ● G	-

3mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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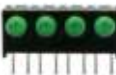
3mm Bi-Level 3-Leaded CBI

	553-3511-600F	0.1 (2.54mm)	.300 (7.62mm)	0.2 (5.08mm)	Vertical 0.2 (5.08mm)	● R ● G	-
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3mm Tri-Block LED CBI

	551-xx06-003F	0.1 (2.54mm)	0.54 (13.72mm)	0.2 (5.08mm)	0.18 (4.57mm)	● G ● Y ● R	Low Current Bi-Color
	551-xx07-003F	0.2 (5.08mm)	0.54 (13.72mm)	0.2 (5.08mm)	0.18 (4.57mm)	● G ● Y ● R	Low Current

3mm Quad LED CBI

	551-xx07-004F	0.2 (5.08mm)	0.68 (17.27mm)	0.175 (4.45mm)	0.170 (4.32mm)	● G ● Y ● R ● O	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity
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3mm Bi-Level LED CBI

	553-xxxxF	0.1 (2.54mm)	0.175 (4.45mm)	0.175 (4.45mm)	0.2 (5.08mm)	● G ● Y ● R ● B ● O	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity Non-Diffused Blank Position
	553-xxxx-200F	0.100 (2.54mm)	0.175 (4.45mm)	0.269 (6.84mm)	0.2 (5.08mm)	● R ● G ● Y ● O ● B	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity Non-Diffused (DIN 41494 compatible) Blank Position
	553-xxxx-300F	0.1 (2.54mm)	0.2 (5.08mm)	0.2 (5.08mm)	0.2 (5.08mm)	● R ● G ● Y ● O ● B	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity Non-Diffused Blank
	553-xxxx-400F	0.1 (2.54mm)	0.2 (5.08mm)	0.269 (6.84mm)	0.2 (5.08mm)	● R ● G ● Y ● O ● B	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity Non-Diffused (DIN 41494 compatible)

3mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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3mm Ganged Array LED CBI

	553-xxxx-0xxF	0.1 (2.54mm)	0.800 (20.32mm)	0.175 (4.45mm)	Vertical 0.2 (5.08mm)	● G ● Y ● R ● B ● O	Bi-Color
					Horizontal 0.2 (5.08mm)		
	553-xxxx-1xxF	0.1 (2.54mm)	0.175 (4.45mm)	0.27 (6.86mm)	Vertical 0.2 (5.08mm)	● R-● R ● G-● G ● G-● Y ● Y-● G ● Y-● Y	Bi-Color
	553-xxxx-2xxF	0.1 (2.54mm)	0.175 (4.45mm)	0.27 (6.86mm)	Vertical 0.2 (5.08mm)	● G ● Y ● R ● B ● O	Bi-Color

3mm High Density Narrow Bi-level LED CBI

	569-011x-x00F	0.09 (2.29mm)	0.135 (3.43mm)	0.24 (6.10mm)	0.18 (4.57mm)	● R ● G ● Y ● O ● B	-
	569-010x-xxxF	0.09 (2.29mm)	0.265 (6.73mm)	0.24 (6.10mm)	0.18 (4.57mm)	● R ● G ● Y ● O ● B	-

3mm Bi-Level Array LED CBI

	553-xxxx-306F	0.1 (2.54mm)	1.205 (30.61mm)	0.2 (5.08mm)	Vertical 0.2 (5.08mm)	● R ● G ● Y ● O ● B	Integral Resistor, 5V Low Current Bi-Color Reverse Polarity Non-Diffused
					Horizontal 0.2 (5.08mm)		

3mm Bi-Level LED CBI Backlighting

	553-22xx-100F	0.1 (2.54mm)	0.175 (4.45mm)	0.27 (6.86mm)	0.2 (5.08mm)	● R-● R ● G-● G ● G-● Y ● Y-● G ● Y-● Y	Backlight
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3mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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3mm Tri-Level LED CBI

	564-0x00-xxxF	0.1 (2.54mm)	0.175 (4.45mm)	0.175 (4.45mm)	0.2 (5.08mm)	- R-R-R - R-Y-G - G-G-G - O-O-O - B-B-B	Integral Resistor, 5V Low Current Bi-Color Blank Position
	564-2210-xxxF	0.1 (2.54mm)	0.175 (4.45mm)	0.27 (6.86mm)	0.2 (5.08mm)	- R - G - Y	Backlight
	564-xx40-xxx4F	0.1 (2.54mm)	0.775 (19.685mm)	0.27 (6.86mm)	Vertical 0.2 (5.08mm) Horizontal 0.2 (5.08mm)	- R - G - Y	-

3mm Quad-Level LED CBI

	568-0x0x-xxxF	0.1 (2.54mm)	0.175 (4.45mm)	0.11 (2.79mm)	0.2 (5.08mm)	- R-R-R-R - G-G-G-G - G-Y-G-Y - Y-G-Y-G - O-O-O-O - B-B-B-B	Integral Resistor, 5V Low Current Backlight
	568-221x-xxxF	0.1 (2.54mm)	0.175 (4.45mm)	0.245 (6.22mm)	0.2 (5.08mm)	- R-R-R-R - G-G-G-G - G-Y-G-Y - Y-G-Y-G - B	Backlight
	568-223x-xxxF	0.1 (2.54mm)	0.175 (4.45mm)	0.245 (6.22mm)	Vertical 0.15 (3.81mm) Horizontal 0.15 (3.81mm)	- R-R-R-R - G-G-G-G - Y-Y-Y-Y	Backlight Blank Position
	568-223x-xxx2F	0.1 (2.54mm)	0.40 (10.16mm)	0.245 (6.22mm)	Vertical 0.15 (3.81mm) Horizontal 0.2 (5.08mm)	- R-R-R-R - G-G-G-G - Y-Y-Y-Y	Backlight
	568-223x-xxx4F	0.1 (2.54mm)	0.80 (20.32mm)	0.245 (6.22mm)	Vertical 0.15 (3.81mm) Horizontal 0.2 (5.08mm)	- R-R-R-R - G-G-G-G - Y-Y-Y-Y	Backlight
	568-xx4x-xxx3F	0.139 (3.53mm)	0.529 (13.44mm)	0.254 (6.45mm)	Vertical 0.2 (5.08mm) Horizontal 0.177 (4.5mm)	- R-R-R-R - R-Y-Y-G - G-G-G-G	Integral Resistor, 5V Low Current, 2mA Bi-Color Tinted/Non-Diffused Backlight
	568-xx4x-xxx4F	0.139 (3.53mm)	0.706 (17.93mm)	0.254 (6.45mm)	Vertical 0.2 (5.08mm) Horizontal 0.177 (4.5mm)	- R-R-R-R - G-G-G-G - Y-Y-Y-Y	Integral Resistor, 5V Low Current, 2mA Bi-Color Tinted/Non-Diffused Backlight

All red, yellow and orange LEDs have ESD 2 kV HBM • All blue, green and white LEDs have ESD 500 V HBM • LEDs with integral resistors are not ESD sensitive

4mm & Rectangular	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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4mm LED CBI

	550-6xx07F	0.118 (3.00mm)	0.25 (6.35mm)	0.205 (5.21mm)	-	● R ● G ● Y	-
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4mm Bi-Level LED CBI

	552-60xx-200F	0.118 (3.00mm)	0.25 (6.35mm)	0.210 (5.334mm)	.232 (5.89mm)	● R-● R ● G-● G ● G-● Y ● Y-● G ● Y-● Y	Blank Position
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2mm x 4mm Rectangular Bi-Level LED CBI

	567-0xxxF	0.125 (3.175mm)	0.250 (6.35mm)	0.220 (5.59mm)	0.250 (6.35mm)	● R-● R ● G-● G ● G-● Y ● Y-● G ● Y-● Y (● R/● G)	Bi-Color Blank Position
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2mm x 4mm Quad Rectangular Bi-Level LED CBI

	567-0xxx-004F	0.125 (3.175mm)	1.000 (25.4mm)	0.220 (5.59mm)	Vertical 0.250 (6.35mm) Horizontal 0.250 (6.35mm)	● R-● R ● G-● G ● G-● Y ● Y-● G ● Y-● Y	Bi-Color Blank Position
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2mm x 4mm Rectangular Quad-Level LED CBI

	568-0x2x-xxxF	.100 (2.54mm)	0.200 (5.08mm)	0.291 (7.39mm)	.100 (2.54mm)	● R-● R-● R-● R ● G-● G-● G-● G ● G-● Y-● G-● Y ● Y-● G-● Y-● G ● Y-● Y-● Y-● Y	Bi-Color Blank Position
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2mm x 5mm Rectangular LED CBI

	566-xx06F	0.15 (3.81mm)	0.16 (4.06mm)	0.3 (7.62mm)		● R ● G ● Y ● O	-
	566-xx07F	0.2 (5.08mm)	0.315 (8.00mm)	.380 (9.65mm)		● R ● G ● Y	Bi-Color

Rectangular & 5mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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2.5mm x 7mm Rectangular LED CBI

	561-4x01-055F	.550 (13.97mm) To top of LED	.200 (5.08mm) Side by side 0.400 (10.16 mm) End to End	-	-	● R ● G ● Y	
	561-4x01-081F	.810 (20.57mm) To top of LED	.200 (5.08mm) Side by side 0.400 (10.16 mm) End to End	-	-	● R ● G ● Y	

5mm LED CBI

	550-xx10F	0.118 (3.0 mm)	0.25 (6.35mm)	0.345 (8.76 mm)	-	● G ● Y ● R ● B	Backlight
	550-xx12F	0.198 (5.03mm)	0.400 (10.16mm)	0.670 (17mm)	-	● G ● Y ● R ● O	(DIN 41494 compatible) Reverse Polarity
	561-xx0x-xxxF	0.500 - 1.000 (12.7 – 25.4mm) To top of LED	0.285 (7.24mm)	-	-	● G ● Y ● R ● O ● B ○ W	Integral Resistor, 5V Low Current Bi-Color Super Bright/Water Clear Super Bright/Diffused Non-Tinted/Non-Diffused
	550-xx04F	0.230 (5.84mm)	0.250 (6.35mm)	-	-	● G ● Y ● R ● O ● B	Integral Resistor, 5V Low Current Bi-Color
	550-xx05F	0.118 (3.0 mm)	0.250 (6.35mm)	0.205 (5.21mm)	-	● G ● Y ● R ● O ● B	Integral Resistor, 5V Low Current Bi-Color
	550-xx07F	0.118 (3.0 mm)	0.250 (6.35mm)	0.205 (5.21mm)	-	● G ● Y ● R ● O ● B	Integral Resistor, 5V Low Current Bi-Color
	550-xx08F	0.250 (6.35mm)	0.250 (6.35mm)	0.205 (5.21mm)	-	● G ● Y ● R ● O ● B	Integral Resistor, 5V Low Current Bi-Color

All red, yellow and orange LEDs have ESD 2 kV HBM • All blue, green and white LEDs have ESD 500 V HBM • LEDs with integral resistors are not ESD sensitive

5mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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5mm 3-Leaded Bi-Color LED CBI

	550-3x05F	0.141 (3.58mm)	0.300 (7.62mm)	0.19 (4.83mm)	-	R/●G Y/●G	Bi-Color
	550-3x09F	0.15 (3.81mm)	0.3 (7.62mm)	0.285 (7.24mm)	-	R/●G Y/●G	Bi-Color

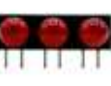
5mm 3-Leaded Bi-Color LED CBI, Offset Cathode

	550-3x07F	0.118 (3.00mm)	0.25 (6.35mm)	0.205 (5.21mm)	-	R/●G Y/●G	Bi-Color
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5mm Dual LED CBI

	550-xx07-002F	0.118 (3.00mm)	0.50 (12.7mm)	.205 (5.21mm)	0.25 (6.35mm)	●G ●Y ●R ●O	Integral Resistor, 5V Low Current Bi-Color
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5mm Tri-Block LED CBI

	550-xx05-003F	0.118 (3.00mm)	.75 (19.05mm)	.205 (5.21mm)	0.25 (6.35mm)	●G ●Y ●R ●O	-
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5mm	LED from PCB (a)	Housing mounts on x Pitch (b)	Front of housing to center of lead (c)	Distance between LEDs (d)	Available Colors	Additional Options
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5mm Quad LED CBI

	550-xx04-004F	0.23 (5.84mm)	1.00 (25.4mm)	-	0.25 (6.35mm)	- G - Y - R - O	Integral Resistor, 5V Low Current Bi-Color
	550-xx05-004F	0.118 (3.00mm)	1.00 (25.4mm)	.205 (5.21mm)	0.25 (6.35mm)	- G - Y - R - O	Integral Resistor, 5V Low Current Bi-Color
	550-xx07-004F	0.118 (3.00mm)	1.00 (25.4mm)	.205 (5.21mm)	0.25 (6.35mm)	- G - Y - R - O	Integral Resistor, 5V Low Current High Efficiency Tinted/Non-Diffused Super Bright/Diffused Super Bright/Water Clear Non-Tinted/Non-Diffused Bi-Color

5mm Bi-Level LED CBI

	552-0xxx F	0.125 (3.18mm)	0.25 (6.35mm)	0.22 (5.59mm)	0.25 (6.36mm)	- G - Y - R - O	Integral Resistor, 5, 12V Low Current Bi-Color
	552-35xx F	0.125 (3.18mm)	0.3 (7.62mm)	0.32 (8.13mm)	0.25 (6.35mm)	- R/G - Y/G	Integral Resistor, 5V Low Current High Efficiency Tinted/Non-Diffused Super Bright/Diffused Super Bright/Water Clear Non-Tinted/Non-Diffused Bi-Color
	552-22xx-100F	0.125 (3.18mm)	0.25 (6.35mm)	0.345 (8.76mm)	0.25 (6.35mm)	- R-R - G-G - G-Y - Y-G - Y-Y	Integral Resistor, 5V Low Current High Efficiency Tinted/Non-Diffused Super Bright/Diffused Super Bright/Water Clear Non-Tinted/Non-Diffused Bi-Color Backlight

5mm 4-Leaded Tri-Color R/G/B LED CBI

	550-4013F	0.165 (4.19mm)	0.3 (7.62mm)	0.2 (5.08mm)	-	- R - G - B	Tri-color RGB Protruding
	550-4014F	0.165 (4.19mm)	0.3 (7.62mm)	0.4 (10.16mm)	-	- R - G - B	Tri-color RGB Backlight

All red, yellow and orange LEDs have ESD 2 kV HBM • All blue, green and white LEDs have ESD 500 V HBM • LEDs with integral resistors are not ESD sensitive



550, 551, 552, 553, 555, 561, 564, 566, 567, 568, 569, 570 & 571 SERIES

CBI® Through Hole Discrete & Housed LEDs

The widest variety of configurations including:

- Right angle, vertical & horizontal arrays in single, bi, tri and quad blocks
- 2mm, 3mm, 4mm, 5mm & Rectangular LEDs
- Perfect for direct view or backlighting applications
- Single & bi-color, diffused, water-clear, tinted, super-bright & high efficiency
- Over 2500 variations, with custom LED placement available
- All visible colors of the spectrum available (from blue to red)



597, 598 & 599 SERIES

microLED® Surface Mount LEDs

Ten different package sizes including:

- 0402, 0404, 0603, 0606, 0805, 1206, 1208, 1210, 1515, 2827, 3528 / PLCC & 3735
- Single color, bi color, tri color in top, right angle, and reverse mount LED configurations.
- Latest AlInGaP & InGaN technology
- Cost competitive pricing



591, 592, 593, 594, 595 & 596 SERIES

Prism® Series Right Angle SMDs

- Fully SMD process compliant part (taped and reeled / pick and place / reflow oven compatible)
- 1.6mm, 2mm & 3mm LEDs
- Can withstand higher temp RoHS solder process and eliminates need for secondary optics or separate process
- Available in standard and low current versions
- Available with square or round lens
- Packaged in single, bi & tri level configurations



515 SERIES

Optopipe® Light Pipes for use with microLED® SMDs

- Light pipes act as a conduit for directing light from LED to front panel viewing
- For PCB and panel mount press-fit mounting
- Right angle and vertical versions available in more than 400 sizes and shapes
- Provides ESD protection, operating / storage temperature -30°C to +100°C
- Allows edge lighting around components such as SFP assemblies and RJ45 jacks
- UL 94V-0 Compliant



249, 507, 556, 557, 558, 559, 605, 606, 607, 608, 609, 610, 612, 620, 621, 622, 623, 630, 653, 654, 655, 656, 657, 658, 675, 676, 677, 678, 679, 680 & 682 SERIES

LED Panel Mount Indicators Plastic & Metal Housings

- Incorporating the latest LED technology in a tamper-proof metal housing enclosures
- Variety of mounting hole diameters from 0.156" (3.9mm) - 1.18" (30 mm)
- Operating voltages 2-72 VDC, 125 and 230 VAC
- Some feature a water-tight seal to NEMA 4X / IP66/67 and daylight viewability
- Available in: red, green, yellow, orange, blue, cyan and white
- 556 & 656 series are UL certified
- RoHS compliant, some with 6C exemptions
- All metal and some plastic housing use lock washer and nut for secure mounting while our 558, 559 and some 600 series use a snap-in plastic housing



585 & 586 SERIES

Based LED Bulbs

- Replaces traditional miniature incandescent bulbs with rugged long-lasting and energy-efficient LEDs
- Base styles including: T 1 3/4 Midget Flange, Wedge Base and Bi-Pin, T 3 1/4 Mini-Bayonet and Mini-Screw, T2 Telephone Slide and 15mm Bayonet
- Voltages from 6, 14 and 28 VDC, 6-36 VDC multi-voltage operation and 125 VAC with non-polarized versions available
- Colors include: red, green, yellow, blue and white while our 558, 559 and some 600 series use a snap-in plastic housing



Military & Relampable Panel Mount Indicators

- Military - LH, LC and MS designations and QPL listed
- Incandescent or neon, designed to mount into 15/32", 11/16" and 1" clearance holes
- Feature water-tight and oil-tight, edge lighting, press-to-test, and dimmable semi or total blackout
- Consult Dialight's Military Cross Reference for specific part number
- Commercial - Incandescent or neon indicators UL recognized designed to mount into 15/32", 11/16" and 1" clearance holes
- Lenses are available in flat, dome, torpedo and faceted



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