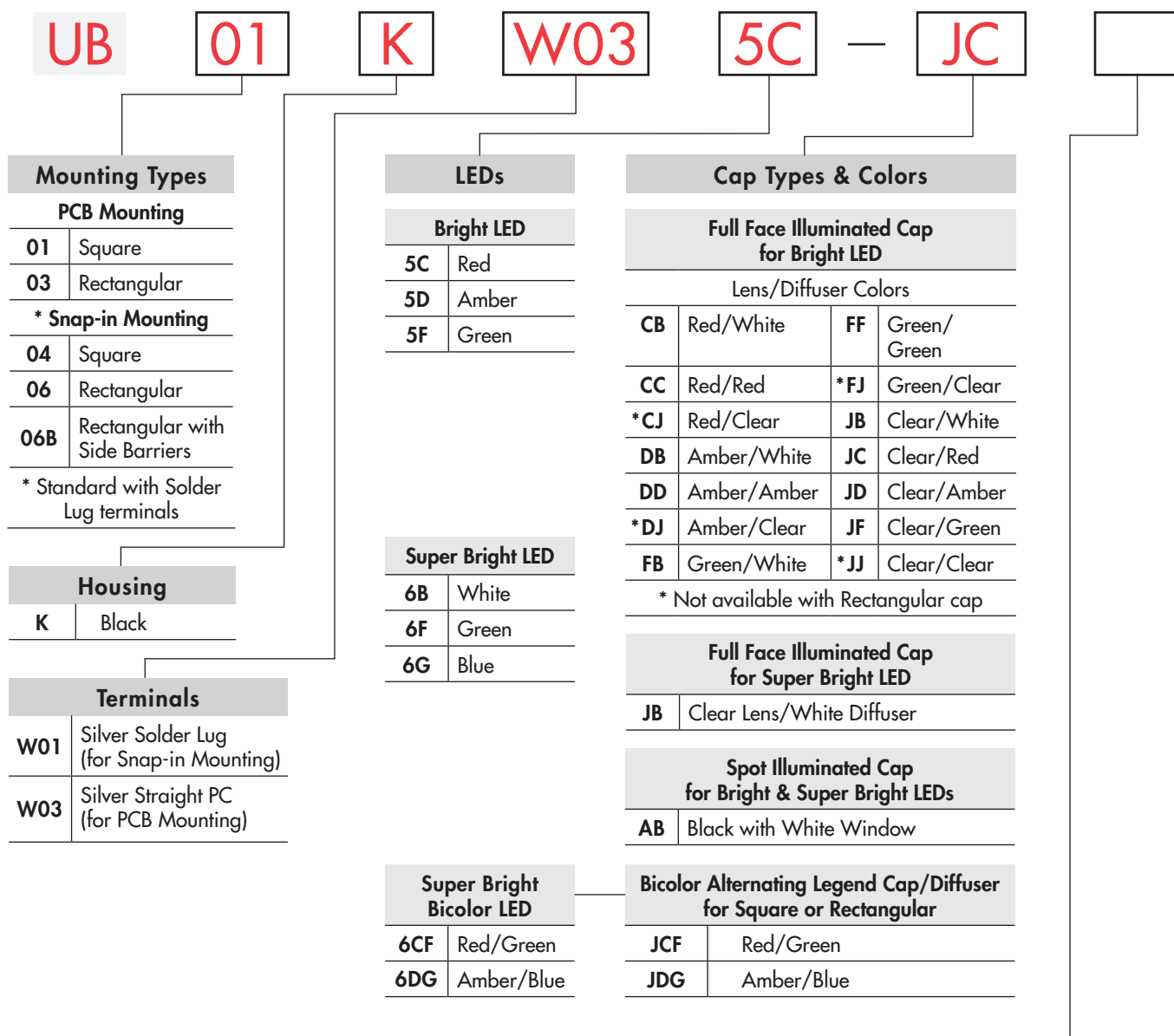




DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

UB01KW035C-JC



Alternating Legends

11	ON (pos)	OFF (pos)
12	ON (neg)	OFF (neg)
13	START	STOP
14	OPEN	CLOSE

Part Numbers for Alternating Legends

Square Alternating Legends				Rectangular Alternating Legends			
Color	Part Number	Color	Part Number	Color	Part Number	Color	Part Number
Red/Green	AT9450CF11	Amber/Blue	AT9450DG11	Red/Green	AT9451CF11	Amber/Blue	AT9451DG11
	AT9450CF12		AT9450DG12		AT9451CF12		AT9451DG12
	AT9450CF13		AT9450DG13		AT9451CF13		AT9451DG13
	AT9450CF14		AT9450DG14		AT9451CF14		AT9451DG14

Refer to Ordering Table for Alternating Legend that corresponds with last 2 digits of part number.

BRIGHT & SUPER BRIGHT LED COLORS & SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on bottom of switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. Resistor value can be calculated by using the formula in the Supplement section. LED is an integral part of switch and not available separately.

Super Bright LEDs are Electrostatic Sensitive				Bright			Super Bright			Unit
				5C	5D	5F	6B	6F	6G	
		Color		Red	Amber	Green	White	Green	Blue	
Maximum Forward Current	I_{FM}		30	30	25	20	30	30		mA
Typical Forward Current	I_F		20	20	20	15	20	20		mA
Forward Voltage	V_F		1.85	2.0	2.1	3.3	3.2	2.9		V
Maximum Reverse Voltage	V_{RM}		5	5	5	5	5	5		V
Current Reduction Rate Above 25°C	ΔI_F		0.40	0.42	0.46	0.25	0.40	0.33		mA/°C
Ambient Temperature Range			-25° ~ +50°C			-25° ~ +50°C				

CAP TYPES & COLOR COMBINATIONS

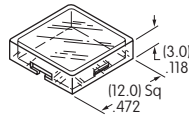
Full Face Illuminated Cap for Bright LED

Lens/Diffuser

Colors Available for Square Cap:

CB	DJ	JC
CC	FB	JD
CJ	FF	JF
DB	FJ	JJ
DD	JB	

AT4074 Lens



AT4075 Diffuser

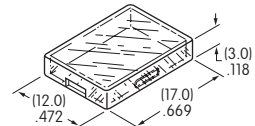


Lens/Diffuser

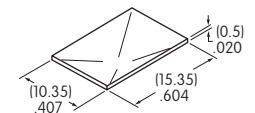
Colors Available for Rectangular Cap:

CB	FB	JD
CC	FF	JF
DB	JB	
DD	JC	

AT4117 Lens



AT4118 Diffuser

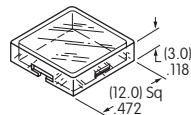


Lens & Diffuser Material: Polycarbonate Lens Finish: Glossy Diffuser Finish: Textured

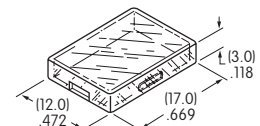
Full Face Illuminated Caps for Super Bright Bicolor LED

JB

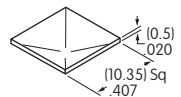
AT4074 Square Lens



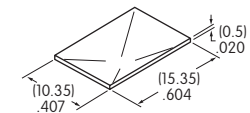
AT4117 Rectangular Lens



AT4188 Square Diffuser



AT4189 Rectangular Diffuser



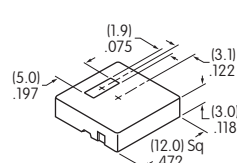
Lens & Diffuser Material: Polycarbonate Lens Finish: Glossy Diffuser Finish: Textured

Spot Illuminated Caps

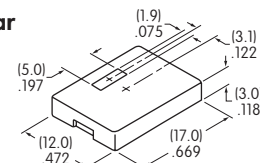
AB

Black Cap with Translucent White Window for LED Display

AT4119 Square for Bright and Super Bright LED



AT4120 Rectangular for Bright and Super Bright LED



Material: Polycarbonate
Finish: Matte

Color Codes: A Black B White C Red D Amber F Green J Clear

SUPER BRIGHT BICOLOR LEDS FOR ALTERNATING LEGENDS

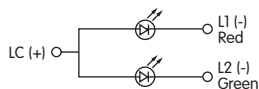
The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on bottom of switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. Resistor value can be calculated by using the formula in the Supplement section. LED is an integral part of switch and not available separately.

Electrical Specifications for Super Bright Bicolor LEDs

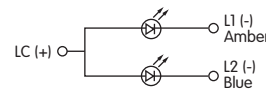
Super Bright LEDs are Electrostatic Sensitive		6CF		6DG		Unit
		Red	Green	Amber	Blue	
Maximum Forward Current	I_{FM}	* 30	* 30	* 30	* 30	mA
Typical Forward Current	I_F	20	20	20	20	mA
Forward Voltage	V_F	2.3	3.2	2.1	3.0	V
Maximum Reverse Voltage	V_{RM}	4	4	4	4	V
Current Reduction Rate Above 25°C	ΔI_F	0.33	0.33	0.33	0.33	mA/°C
Ambient Temperature Range		-25° ~ +50°		-25° ~ +50°		°C

* Value applies to single color illumination for either Red or Green or Amber or Blue. When both colors are illuminated simultaneously, the sum of the currents should not exceed the smallest value of the maximum forward current.

Super Bright Bicolor Red/Green LED with 2 elements



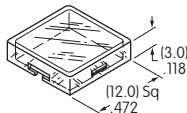
Super Bright Bicolor Amber/Blue LED with 2 elements



Alternating Legend Caps for Super Bright Bicolor LED

JCF **JDG**

AT4074 12.0mm Square Flat Cap



AT9450 Square Legend Insert

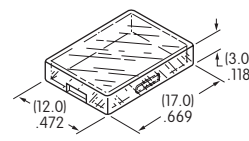


AT4188 Square Diffuser



JCF **JDG**

AT4117 12.0mm x 17.0mm Rectangular Flat Cap



AT9451 Rectangular Legend Insert



AT4189 Rectangular Diffuser



Lens & Diffuser Material: Polycarbonate Legend Insert Material: Polyethylene Terephthalate (PET)

Lens Finish: Glossy Diffuser Finish: Textured

Standard Alternating Legend Pairs

11

ON

OFF

12

ON

OFF

13

START

STOP

14

OPEN

CLOSE

Green/Red or Blue/Amber

Green/Red or Blue/Amber

Green/Red or Blue/Amber

Green/Red or Blue/Amber

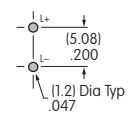
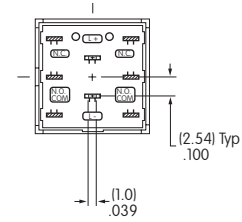
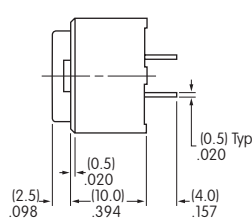
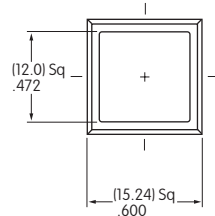
Cap illumination is alternating Green/Red or Blue/Amber; legend text is black.

Contact factory for other Alternating Legends.

Legend illustrations are approximate representations of the actual characters on the filters.

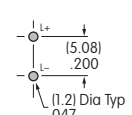
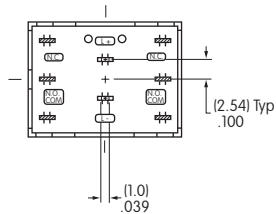
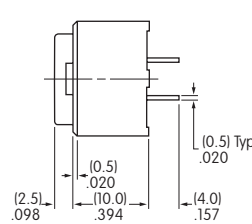
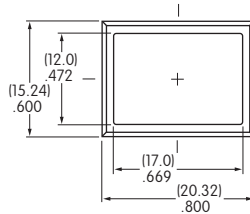
TYPICAL INDICATOR DIMENSIONS

Square • PCB Mount



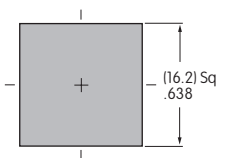
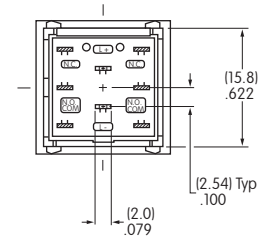
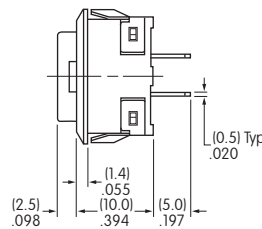
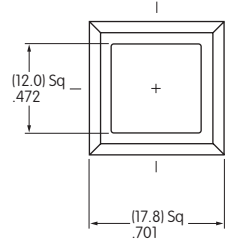
UB01KW035C-JC

Rectangular • PCB Mount



UB03KW035F-FF

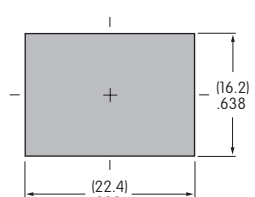
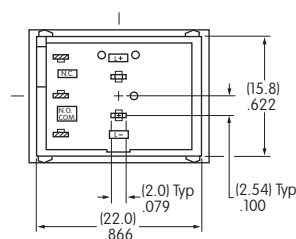
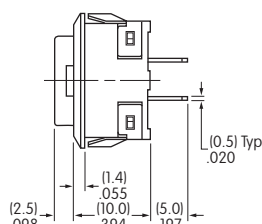
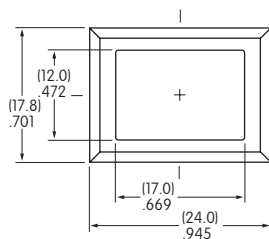
Square • Snap-in Mount • Built-in Bezel



Panel Thickness:
1.0 ~ 3.2mm (.039 ~ .126")

UB04KW015C-JC

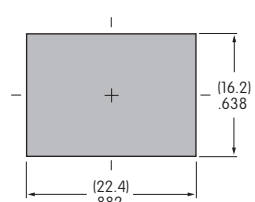
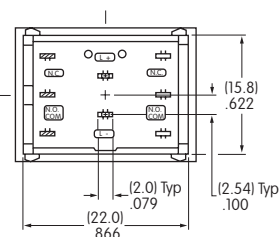
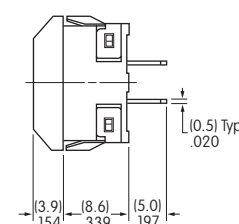
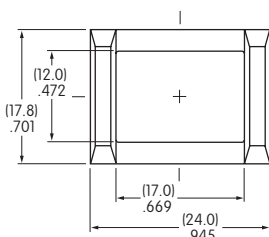
Rectangular • Snap-in Mount • Built-in Bezel



Panel Thickness:
1.0 ~ 3.2mm (.039 ~ .126")

UB06KW015D-DD

Rectangular • Snap-in Mount • Built-in Side Barriers

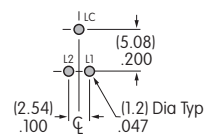
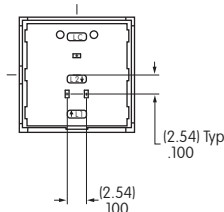
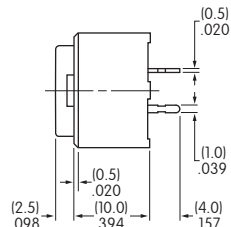
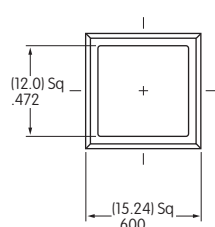


Panel Thickness:
1.0 ~ 3.2mm (.039 ~ .126")

UB06BKW015F-FF

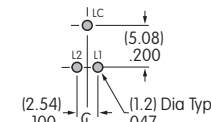
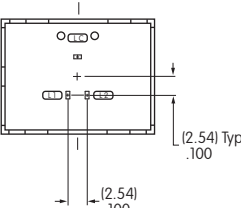
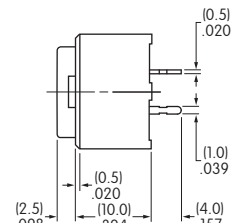
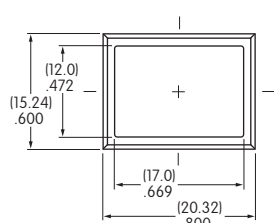
TYPICAL INDICATOR DIMENSIONS

Square • PCB Mount • Alternating Legends



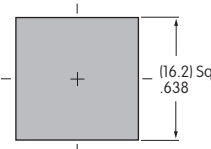
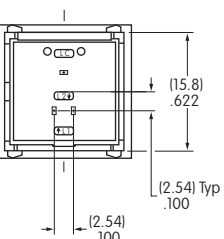
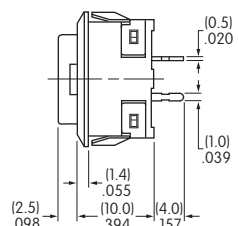
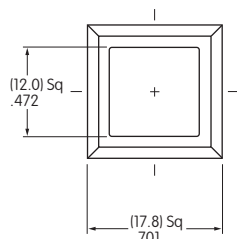
UB01KW036DG-JDG11

Rectangular • PCB Mount • Alternating Legends



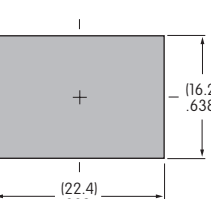
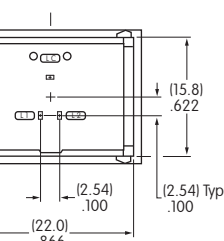
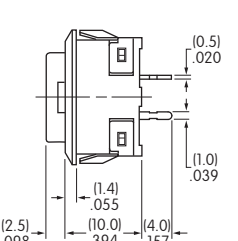
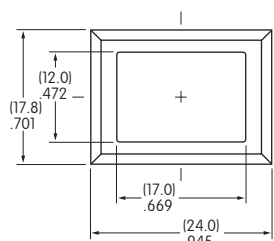
UB03KW016DG-JDG11

Square • Snap-in Mount • Built-in Bezel • Alternating Legends



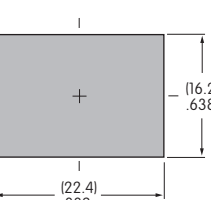
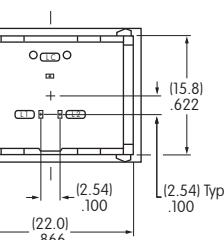
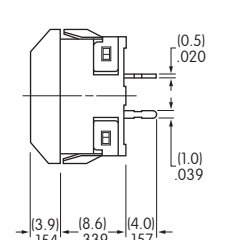
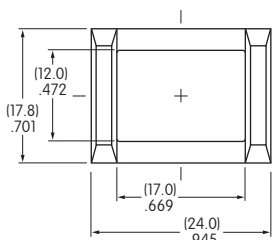
Panel Thickness:
(1.0 ~ 3.2mm) .039 ~ .126" UB04KW016DG-JDG11

Rectangular • Snap-in Mount • Built-in Bezel • Alternating Legends



Panel Thickness:
(1.0 ~ 3.2mm) .039 ~ .126" UB06KW016DG-JDG11

Rectangular • Snap-in Mount • Built-in Side Barriers • Alternating Legends



Panel Thickness:
(1.0 ~ 3.2mm) .039 ~ .126" UB06BKW016DG-JDG11

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Authorized Distributor

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NKK Switches:

[UB06KW015F-JB](#) [UB06KW015D-JB](#) [UB06KW015C-JB](#) [UB04KW016B-JB](#) [UB04KW016F-JB](#) [UB04KW016G-JB](#)
[UB06KW016B-CC](#) [UB06KW016B-DD](#) [UB06KW016B-FF](#) [UB06KW016B-JB](#) [UB01KW036G-JB](#) [UB01KW036G](#)
[UB06KW016B](#) [UB04KW015D-DB](#) [UB04KW015C-JB](#) [UB01KW036B-JB](#) [UB01KW035F](#) [UB04KW015F-JB](#)
[UB03KW035D](#) [UB04KW016B](#) [UB03KW035C-JB](#) [UB04KW016F](#) [UB03KW035F](#) [UB01KW036B](#) [UB03KW035C](#)
[UB04KW016B-AB](#) [UB03KW035D-JB](#) [UB04KW015F-JF](#) [UB04KW016G](#) [UB01KW035C-JC](#) [UB01KW036F](#)
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[UB04KW015F](#) [UB04KW015C-CC](#) [UB06KW015C](#) [UB04KW015F-FF](#) [UB01KW035D](#) [UB06KW015D-DD](#)
[UB01KW035C](#) [UB06KW015C-CB](#) [UB06KW015F](#) [UB06KW015F-FB](#) [UB04KW015C-JC](#) [UB01KW035D-DD](#)
[UB04KW015D](#) [UB06KW015D](#) [UB03KW035F-JB](#) [UB06KW015F-FF](#)