

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







General Specifications

Electrical Capacity

Resistive Load: 10A @ 125V AC, 6A @ 250V AC, or 6A @ 30V DC

Inductive Load: 5A @ 125V AC (P. F. @ .60)

Other Ratings

10 milliohms maximum **Contact Resistance:**

Insulation Resistance: 200 megohms minimum @ 500V DC **Dielectric Strength:** 1,500V AC minimum for 1 minute minimum

Mechanical Life: 30,000 operations minimum **Electrical Life:** 10,000 operations minimum

Nominal Operating Force: 11.77N for maintained & 17.65N for momentary

Angle of Throw:

Materials & Finishes

Steel with chrome plating Housing:

Movable Contacts: Silver clad copper with silver plating

Stationary Contacts: Copper with silver plating

> Melamine Base:

Common Terminal: Copper with silver plating **End Terminals:** Brass with silver plating

Lamp Terminals: Phosphor bronze with nickel plating

Environmental Data

-20°C through +50°C (-4°F through +122°F) **Operating Temperature Range:**

> 90 ~ 95% humidity for 96 hours @ 40°C (104°F) **Humidity:**

 $10 \sim 55$ Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range Vibration:

& returning in 1 minute; 3 right angled directions for 2 hours

50G (490m/s²) acceleration (tested in 3 right angled directions, with 3 shocks in each direction) Shock:

Installation

Cap Installation Force: 19.61N (4.41 lbf)

SolderingTime & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

File No. E44145 - Recognized only when ordered with marking on switch.

Add "/U" or "/CUL" before first dash in part number to order UL recognized switch.

All models recognized at 10A @ 125V AC & 6A @ 250V AC



Rockers

Keylocks Programmable Illuminated PB Pushbuttons

B57

Distinctive Characteristics

Each half of the rocker face is distinctly illuminated due to partitioned rocker construction and dual lamps.

Numerous lighting effects achievable by using white or clear rocker with colored filters or lamp covers, plus using different colors on each side of rocker.

Snap-in mounting allows fast, easy installation of switch into panel.

Stainless steel retaining clips provide secure mounting over a wide range of panel thicknesses.

Dual incandescent or neon lamps operate independently of each other.

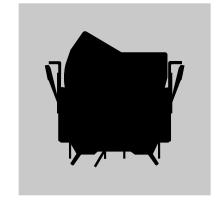
Front panel relamping.

Stationary lamp sockets are independent of rocker actuation, protecting lamps from damage due to shock and vibration.

Switch contacts are rated at 10 amps 125V AC which makes these devices well-suited for various power switching applications.



Actual Size





Slides

Supplement Accessories

TYPICAL SWITCH ORDERING EXAMPLE

Pole **DPDT**

Circuits						
	Up	Center	Down			
2	ON	NONE	ON			
3	ON	OFF	ON			
5	ON	NONE	(ON)			
8	(ON)	OFF	(ON)			
9	ON	OFF	(ON)			
() = Momentary						

Lamps			
Incandescent			
E	6-volt		
F 12-volt			
Н	H 18-volt		
K	K 24-volt		
L	28-volt		
Neon			
N	110-volt		
Not suitable with green & blue			
Nonilluminated			
0 No Lamp			

Bezel			
No Code	No Bezel		
Α	Black		
В	White		
С	Red Amber Yellow		
D			
E			
F	Green		
G	Blue		
Н	Gray		

Rocker Caps				
1	White without filters or lamp covers			
2	White with filters			
3	White with lamp covers			
4	Clear with filters			

Note: Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LW3122-H4CF-A

Fi	Lamp Cover/ Filter Colors For Up Position				
0	0 No Cover/Filter				
L	Lamp Cover				
С	Red				
D	Amber				
F	F Green				
	Filter				
В	White				
С	Red				
D	Amber				
E	Yellow				
F	Green				
G	G Blue				

For Down Position				
0	No Cover/Filter			
Lamp Cover				
С	Red			
D	Amber			
F	Green			
Filter				
В	B White			
С	C Red			
D	D Amber			
E	E Yellow			
F	Green			
G	Blue			

Lamp Cover/ **Filter Colors**



IMPORTANT:



Switches are supplied without UL & cULus marking unless specified. UL & cULus recognized only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on General Specifications page.



POLES & CIRCUITS

. 5 = 5 5 5 10 5 10									
		Rocker Position () = Momentary		Connected Terminals		minals	Throw & Power/Lamp Schematics		
Pole	Model	Up	Center	Down	Up	Center	Down	Notes: Terminal numbers are not actually on switch. Lamp circuit is isolated and requires an external power source.	
DP	LW3122 LW3123 LW3125 LW3128 LW3129	OX OX OX) OX	NONE OFF NONE OFF	ON ON (ON) (ON) (ON)	2-3 5-6	OPEN	2-1 5-4	DPDT	

LAMP CODES & SPECIFICATIONS

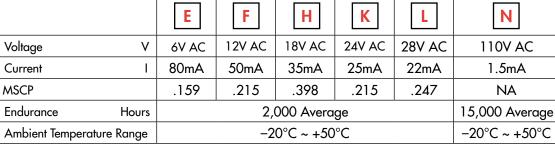
Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation. For dimension drawing of lamps see Accessories & Hardware section.

For neon, if the source voltage is greater than rated voltage, a ballast resistor is required. The ballast resistor calculation and more lamp detail are shown in the Supplement section. Neon not for use with green lamp cover or blue and green filters.

Incandescent & Neon Lamps for Solid & Design Caps

AT602 AT602N Incandescent Neon





Recommended Resistor for Neon: 33K ohms for 110V AC; 100K ohms for 220V AC

T-11/2 Pilot Slide Base

0

No Lamp Code 0 indicates that no lamp is used.

ROCKER CAPS, LAMP COVER & FILTER

AT420B White Rocker without Filters or Lamp Covers



AT420B White Rocker with Filters



AT420B White Rocker with Lamp Covers



AT420J **Clear Rocker** with Filters



AT421

Rocker Cap Material: Polycarbonate

Finish: Glossy

Indicate the lamp cover or filter color desired in both the up and down positions.

AT416 Lamp Cover

Red Amber Green

Red

Yellow

Green

Material: Polycarbonate

AT421 Filter





Material: Silicon Rubber





Blue



Amber

Slides



Keylocks | Programmable | Illuminated PB | Pushbuttons

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Touch Indicators

BEZEL & BEZEL COLORS

AT206 Bezel & Color Codes



Black

No Bezel



White

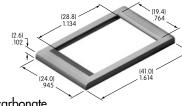












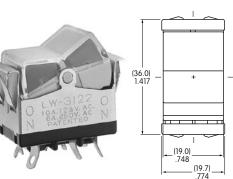
Red Yellow

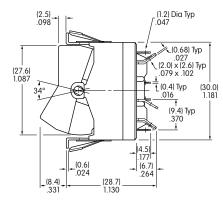
Blue

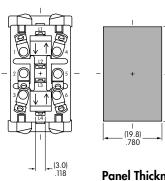
Material: Polycarbonate

TYPICAL SWITCH DIMENSIONS

Solder Lug • Without Bezel





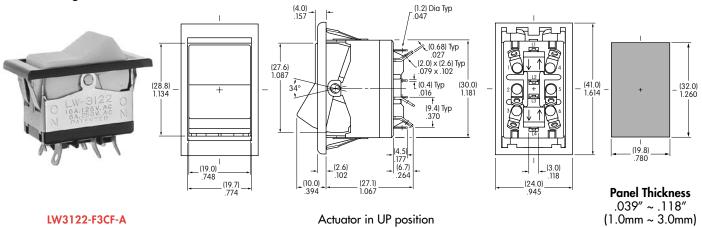


LW3122-F4CF

Actuator in UP position

Panel Thickness .039" ~ .1*57*" $(1.0mm \sim 4.0mm)$

Solder Lug • With Bezel



LW3122-F3CF-A

Actuator in UP position

OPTIONAL ACCESSORY

AT107 Lamp Extractor

Lamps can be changed without removing the switch from the panel. AT107 assists in removing lamps from the switch.



LEGENDS

Inscriptions can be placed on the rocker or filter. Details regarding screen printing may be obtained from the factory.

