

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









LW-Series Wiper/Washer Control



Keeping in step with the needs of the Transportation Industry, Carling Technologies introduces yet another addition to our L-series family of Control Products, the new Wiper/Washer Control. Offering the best of both worlds, this new product combines the reliability and performance that you've come to expect from the L-Series along with sleek aesthetics to seamlessly integrate into most any dashboard design. The Wiper/Washer Control features a robust packaging design which protects critical components, offers flexibility to meet a variety of customer requirements, while controlling several functions through the use of one single Control Product. Our integrated design provides an added bonus with the cost savings realized from the reduced need for insulated wires and connectors.

Electrical

Current Rating 1 relay

8 amps, 14 VDC 4 amps, 28 VDC

2 relavs

1 amps, 14 VDC 1 amps, 28 VDC

nations standard.

Electrical Properties Reverse polarity protection

Over voltage protection

Cold cranking protection according to SAE J1455, Sections. 4.11.1.1.

and 4.11.1.2.1

Transient voltage protection which includes load dump and inductive switching according to SAE J1455,

sec. 4.11.2.2

Electrostatic discharge protection according to SAE J1455 Sec. 4.11.2.2.5.1 (Discharge a 150 pf capacitor that has been charged to a potential of 15kV through 150

Ohm resistor.)

Meets all other EMI/EMC requirements for class C trucks.

Mechanical

Mechanical Vibration Sinusoidal Vibration: 10-55-10 Hz,

0.06" DA, one minute-cycle, three

hours/axis

Random Vibration: Three

hours/axis, three mutually perpendicular axes with a test level 4G's.

Frequency Amplitude 5Hz 0.16 G²/Hz 100Hz 0.16 G²/Hz

500Hz -3dB/octave roll-off Tests were conducted according to SAE J1455, Sec 5.7 and Sec. 4.9.4.

Shock: MIL-STD-202G Method 213B, Test Condition K, 30G's, 11

ms.

Endurance Test According to SAE J2349, March 97

for windshield washer switch for Trucks, Buses and Multipurpose Vehicles (20,000 cycle minimum).

NOTES:

For more detailed specifications, consult factory.

Physical Characteristics

Illumination LED, rated 100,000 hours 1/2 life

Cover Acetate Washer Actuator Silicone

Toggle Actuator Nylon 6/6 glass filled

Bracket Nylon 6/6

Connector Nylon 6/6 rated 85° polarized

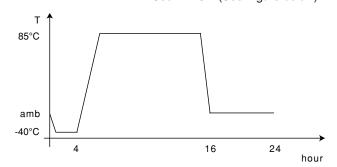
Washer Function Momentary

Toggle Function Maintained Intermittent

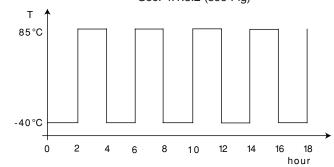
Operation Momentary Weight 44 grams

Environmental

Operating Temperature . . . -25° C to + 85° C Temperature Cycle According to SAE J1455, Sec. 4.1.3.1 (See Figure below)



Thermal Shock According to SAE J1455, Sec. 4.1.3.2 (see Fig)



Humidity According to SAE J1455, Sec. 4.2.3

(30 cycles for 8 hrs. with maximum temperature of 85°C and 95% rela-

tive humidity.

Dust Bombardment According to SAE J1455, Sec. 4.7.3

(with dust concentration of 0.88gm/m³ for 24 hours.)

Salt Spray MIL-STD-202G, Method 101D for

96 hours.





Series Rating Intermittent Wiper/Washer Lamp #1

6 Lamp #2 7 8 9
Bracket Rocker/Paddle Legend One
Color Color

8 ROCKER/PADDLE COLOR

Legend Legend Two
Orientation

1 SERIES

LW Wiper/Washer Control with six intermittent positions: low. high, wash/wipe

 2 RATING¹

 1 8A, 14VDC (1 relay)
 4 1A, 14VDC (1 relay)

 2 4A, 28VDC (1 relay)
 5 1A, 14VDC (2 relay)

 3 1A, 14VDC (1 relay)
 6 1A, 28VDC (2 relay)

3 INTERMITTENT TIMING

2-15 seconds

no lamp

green LED

For legend options, see page 69 of this catalog.

10 LEGEND ORIENTATION

7 BRACKET COLOR

black

black

9 LEGEND #1 00 No legend

No legendvertical (lamp 1 on top)horizontal (lamp 1 on right)

ORIENTATION OFACTUATORILENS IN PANEL
ORIENTATION 1

LAMP 1

LAMP 2

LAMP 2 LAMP 1 NO

11 LEGEND #2

00 No legend

For legend options, see page 69 of this catalog.

NOTES

Z

1 Relay coil current is 1A max. Relay must have an arc suppression in parallel with the coil.

2

3

red LED

amber LED

