

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







ZM Series **Subminiature Snap-acting Switches**

Features/Benefits

- Reliable snap-acting mechanism
- Long electrical and mechanical life
- Compact size—Ideal when space is limited
- Various PCB terminals and actuators
- RoHS compliant / compatible

Typical Applications

- PCB detection switch
- Communication devices
- Testing equipment
- Security/Alarm systems
- Consumer electronics









Specifications

CONTACT RATING: F7: 3A @ 125 VAC

M9: 0.2A @ 60 VDC.

ELECTRICAL LIFE: 10,000 Cycles. @ 3A INSULATION RESISTANCE: 100 M ohm min. DIELECTRIC STRENGTH: 1000 Vrms. OPERATING TEMPERATURE: -30°C to 85°C. OPERATING FORCE: CJ: 150 grams, CH: 90 grams.

* Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

Materials

COVER: Nylon 6/6

ACTUATOR BUTTON: Nylon 6/6

CASE: Nylon 6/6 SPRING: SUS

MOVABLE BLADE: BeCu

MOVABLE CONTACT: Silver alloy (M9 option gold plated) FIXED CONTACTS: Silver alloy (M9 option gold plated)

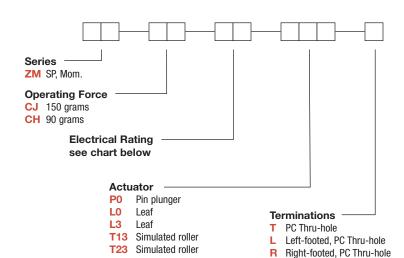
FIXED TERMINALS: Brass - Ag plated. ACTUATOR (Leaf / Roller options): SUS

K PC Thru-hole with retention feature

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-48 and J-49. For additional options not shown in catalog, consult Customer Service Center.



Option	UL	UL	3 4			
Code	c ¶1 us 1054	c AN ° _{us} 61058-1				
F7	3 A 125 V AC	3 A 125 V AC 3 A 30 V DC	3 A 125 V AC			
M9	0.1 A 48 V DC	0.1 A 48 V DC	0.1 A 48 V DC			
	0.2 A 60 V DC	0.2 A 60 V DC	0.2 A 60 V DC			
	0.1 A 125 V AC	0.1 A 125 V AC	0.1 A 125 V AC			

Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

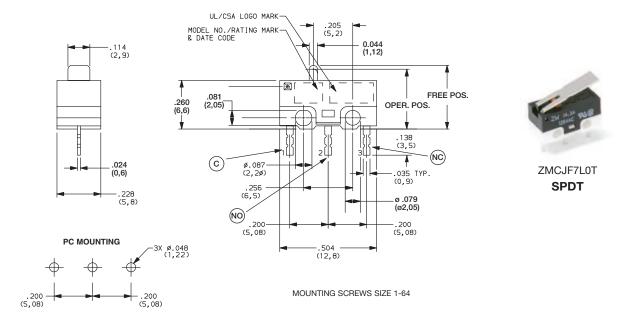


www.ck-components.com

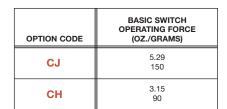
ZM Series Subminiature Snap-acting Switches

SERIES ZM == == ==

ZM SUBMINIATURE SNAP-ACTING SWITCHES - SP MOMENTARY



OPERATING FORCE



ELECTRICAL RATING

			CONTACT	MATERIAL	
CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	MOVABLE CONTACT	STATIONARY CONTACT	ELECTRICAL RATING
F7	Yes	Yes	Silver	see chart	
M 9	Yes	Yes	Gold plating	see chart	

^{*} Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

Consult Customer Service center for availability and delivery of nonstandard ratings.

Option	UL	UL	3 34			
Code	c 71 °us 1054	c ', 1 058-1				
F7	3 A 125 V AC	3 A 125 V AC 3 A 30 V DC	3 A 125 V AC			
M9	0.1 A 48 V DC	0.1 A 48 V DC	0.1 A 48 V DC			
	0.2 A 60 V DC	0.2 A 60 V DC	0.2 A 60 V DC			
	0.1 A 125 V AC	0.1 A 125 V AC	0.1 A 125 V AC			





Third Angle Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



Subminiature Snap-acting Switches ACTUATOR T13 T23 P0 PIN PLUNGER LEAF, 50 GRAMS (CJ ONLY) SIMULATED ROLLER, 40 GRAMS (CJ ONLY) LEAF, 30 GRAMS (CH ONLY) SIMULATED ROLLER, 25 GRAMS (CH ONLY) 8.35 0.2A 60V DC/125V AC ∆ ZM e220008 OP OP OP

ACTUATOR	A (mm)	B Ref (mm)	C (mm)	D (mm)	E (mm)	DIFF. MOTION mm MAX	OPER. FORCE grams MAX		RELEASED FORCE	OVER TRAVEL
OPTION CODE	LENGTH OF LEVER	LEVER LENGTH MTG. HOLE TO OP	PRE- TRAVEL MAX	OPERATING POSITION	FREE POSITION MAX		CJ	СН	Grams MAX	MIN
P0 PIN PLUNGER	NA	NA	1.3	7.0 ±0.3	8.0	0.3	150	90	15-20	0.2
L0 LEAF	13.0	4.03	3.4	8.4 ±0.8	11.0	1.3	50	-	8	0.6
L3 LEAF	13.0	4.03	3.4	8.4 ±0.8	11.0	1.3	-	30	5	0.6
T13 SIMULATED ROLLER	15.0	5.36	3.8	10.5 ±0.8	13.0	1.5	40	-	7	0.6
T23 SIMULATED ROLLER	15.0	5.36	3.8	10.5 ±0.8	13.0	1.5	-	25	4	0.6

TERMINATIONS PC THRU-HOLE WITH RETENTION FEATURE (STD.) PC THRU-HOLE .138 (3,5) (1.10) LEFT FOOTED, PC THRU-HOLE RIGHT FOOTED, PC THRU-HOLE Third Angle

Dimensions are shown: Inches (mm) Specifications and dimensions subject to change