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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



			F Series Pushbutton Switches	
 Features/Benefits Up to 10 poles per module Various contact terminals Various mounting & switch ganging configurations Mechanical indicator buttons RoHS compliant 	• •		c Rus	
Specifications				
SWITCHING POWER: F module max. AC/DC: Gold: 1 VA/300 mW. SWITCHING VOLTAGE: F module max. AC/DC	,	(650 grams); 6U: 9.0N (900 grams)		
Gold: 50/30 V. SWITCHING CURRENT: F module max. AC/DC: Silver: 0.5A/0.5A, Gold: 0.04A/0.01A.		EUROPEAN TYPICAL SF OPERATING FORCE: 2U: 3.5N±0.5N (350 grams±100 grams); 4U: 5N±1N (500 grams±100 grams); 6U: 6.5N±1N (650 grams±100 grams); 8U:		
CARRYING CURRENT: Max at du = 20C: Silve DIELECTRIC STRENGTH (50 Hz, 1 min.): Chas	-	9.0N±1N (900 gra OPERATING TEMPER Materials	ams±100 grams). ATURE RANGE: -40°C to 70°C.	
Between contacts: ^1500V. OPERATING LIFE "OA/EE" (24V/200mA): >10 ⁵ "GR": >3.5 x 104 operations.	operations		nate UL 94V-0 or polyester UL 94V-0. r UL 94V-0.	
CONTACT RESISTANCE: Initial: Typical %10 m After operating life: %100 mΩ	Ω, max. 20 mΩ	MOVABLE CONTACTS over nickel.	S: Bimetal brass, silver plated, gold plate	
INSULATION RESISTANCE: ^10 ⁹ Ω between chassis and contacts.	pen contacts,	STATIONARY CONTAG	CTS & TERMINALS: Brass, silver plated,	
CAPACITANCE (at f = 10 kHz): %0.7 pF betwee	en 2 contacts.	TERMINAL BOARD: F	Polyester UL 94V-0.	
TOTAL TRAVEL/LATCHING TRAVEL: 4.7mm/3. .130 inch).	Υ.	RETURN SPRING: MU TERMINAL SEAL: RTV		
All models and options are RoHS compliant an	d compatible.			

All models and options are RoHS compliant and compatible.

NOTE: All models and options are RoHS compliant and compatible

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

CHASSIS: Steel.

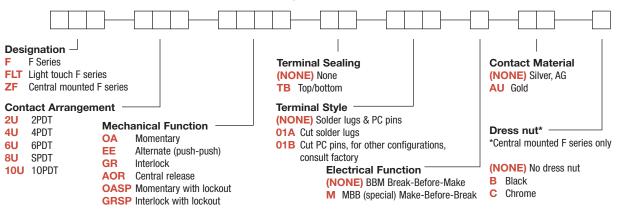
LOCKOUT PIN: Steel.

BLOCKERS: Steel.

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 A-88 thru A-95. For additional options not shown in catalog, consult Customer Service Center. If requesting only a switch, select either a North American or European switch as noted below. Chassis and buttons are sold separately. If multiple stations are selected, we will assume all switches are the same unless noted otherwise.

North American Order Code - Switch Only

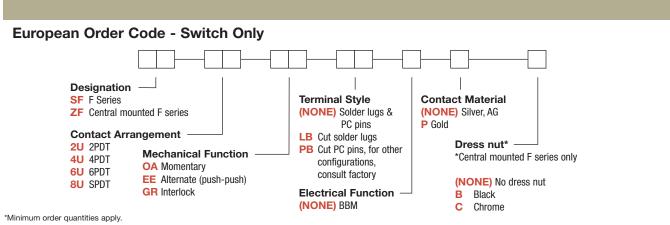




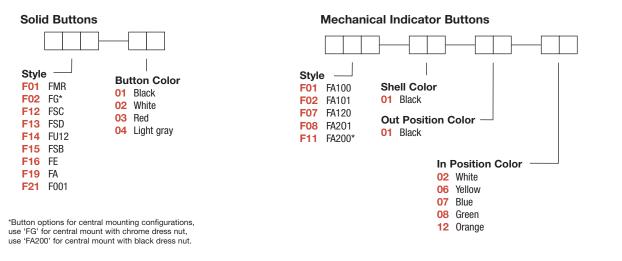
Pushbutton

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Pushbutton >







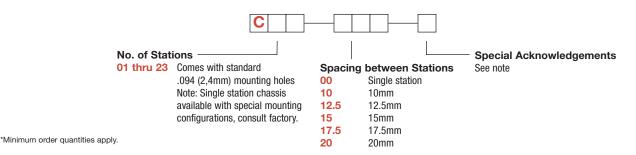
BUTTON REMOVAL

A button of a push-push switch should only be removed in the "OFF" non-latching position.

Order Code - Chassis

To order a switch with chassis, create the switch part number listed above and add the Chassis part number configurator information at the end of the part number.

Note: We do not guarantee or recommend interlocking beyond 10 stations.





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

SWITCHES WITH STANDARD OPTIONS

F2UEE

CONTACT ARRANGEMENT

2U

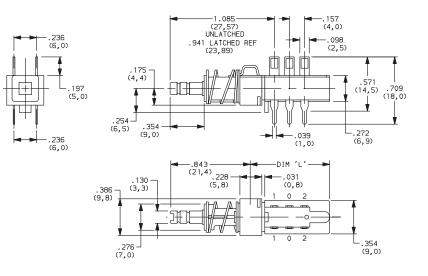
4U

6U

8U

10U

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Ļ_{ŶŶ} A **Pushbutton**

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ZF2UEEBF11010108

LENGTH DIM 'L'

0.827 (21,00)

1.300 (33,00)

1.770 (45,00)

2.240 (57,00)

2.720 (69,00)

CONTACT ARRANGEMENT	LENGTH DIM 'L'
2U	0.827 (21,00)
4U	1.300 (33,00)
6U	1.770 (45,00)
8U	2.240 (57,00)
10U	2.720 (69,00)

Designation, North America

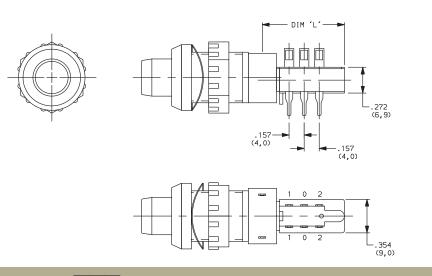
Central mounted F series

F Series

FLT Light touch F series

F

ZF



DESIGNATION

Designation, Europe

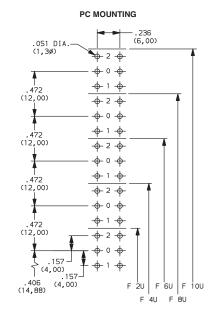
- SF F Series
- **ZF** Central mounted F series



Third Angle \bigcirc Projection

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

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0	OPTION CODE	NO. OF POLES	SCHEMATIC
	2U	2PDT	
	4U	4PDT	2X 1 0 0 0
	6U	6PDT	3X 1 0 0 0 3X 1 0 2 1 0 2
	8U	8PDT	4X 1 0 0 0 4X 1 0 2 1 0 2
	10U	10PDT	5X 1 0 0 0 5X 1 0 2 1 0 2



MECHANICAL FUNCTION

North America

OPTION CODE	FUNCTION	
OA	Momentary	
EE	Alternate (push-push)	
GR	Interlock	
AOR	Central release	
OASP	Momentary with lockout	
GRSP	Interlock with lockout	

Europe

OPTION CODE	FUNCTION
OA	Momentary
EE	Alternate (push-push)
GR	Interlock

Image: Terminal Sealing (NONE) No Seal TB TB TDP & BOTTOM TOP & BOTTOM F2UEE shown in example above. NOTE: Available for North America only



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

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Pushbutton >

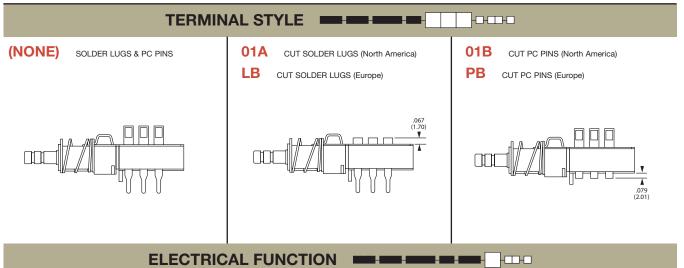
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A Pushbutton

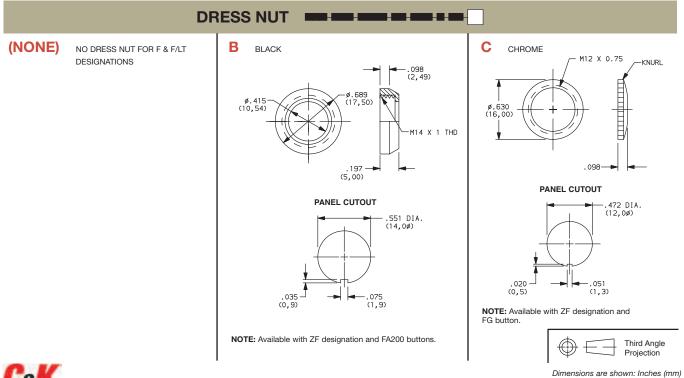


OPTION CODE	FUNCTION
(NONE)	BBM Non-shorting
М	MBB Shorting (North America only)

CONTACT MATERIAL

NORTH AMERICA OPTION CODE	EUROPE OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	MATERIAL	RATING
(NONE)	(NONE)	YES	YES	SILVER, AG	50 VA/15 W; 125/30 V; 0.5/0.5 A
AU	Р	YES	YES	GOLD	1 VA/300mW; 50/30 V; 0.04 A/0.01 A

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

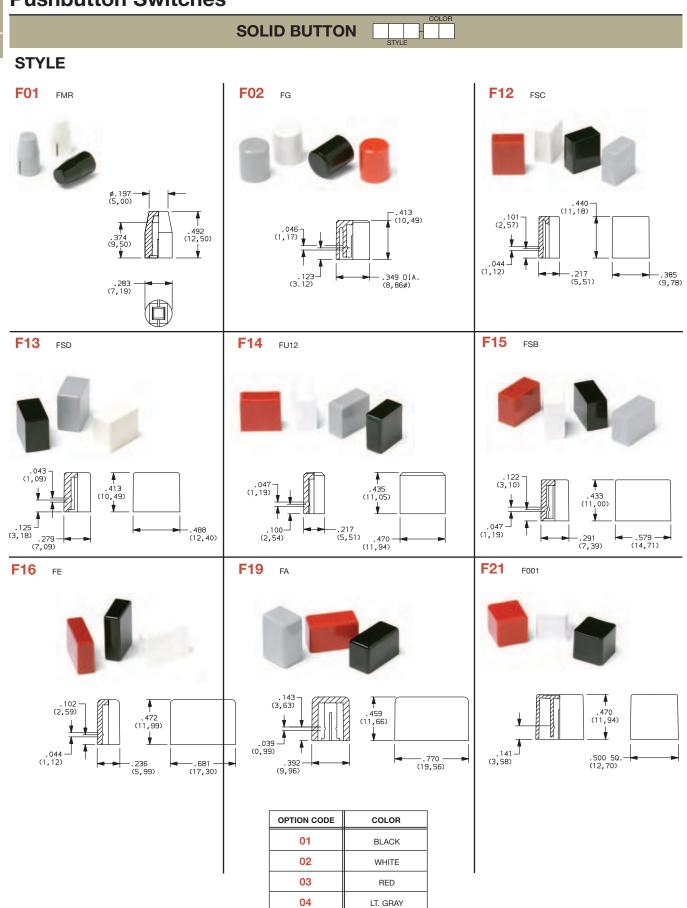


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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Pushbutton >



C&K

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

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-.184 (4,67)

.643 (16,33)

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.189 (4,80)

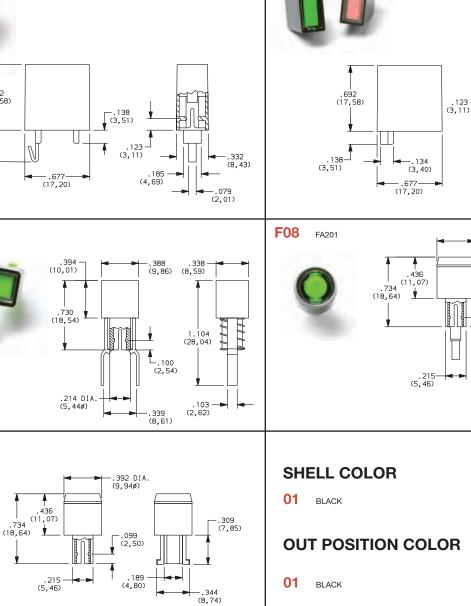
.392 DIA. (9,94ø)

(2,50)

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MECHANICAL BUTTON

F02

FA101

IN POSITION COLOR

OPTION CODE	COLOR
02	WHITE
06	YELLOW
07	BLUE
08	GREEN
12	ORANGE



STYLE

FA100

.692 (17,58)

.335-(8,51)

FA120

F07

F11 FA200

F01

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

CHASSIS

NUMBER OF STATIONS

C00 Thru C10 Comes with standard 0.094 (2,44mm) mounting holes

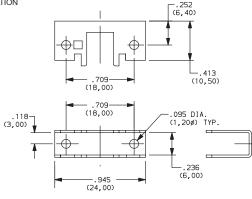
NOTE: Single station chassis available with mounting configurations, consult factory.

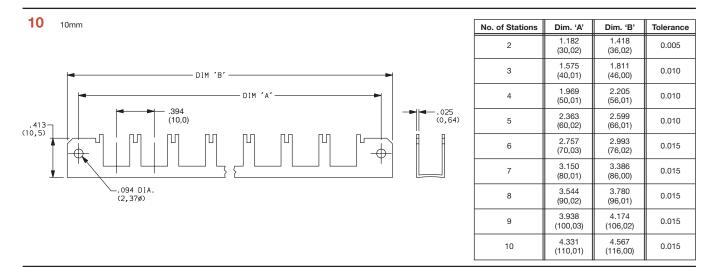
SPACING

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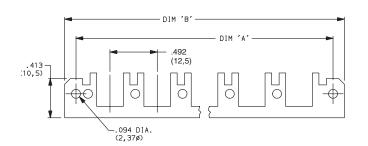
Pushbutton >

00 SINGLE STATION





12.5 12.5mm



	No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
	2	1.200 (30,48)	1.436 (36,47)	0.005
	3	1.692 (42,98)	1.928 (48,97)	0.010
	4	2.184 (55,47)	2.420 (61,47)	0.010
.025 (0,64)	5	2.676 (67,97)	2.912 (73,96)	0.010
-	6	3.169 (80,49)	3.405 (86,49)	0.015
	7	3.661 (92,99)	3.897 (98,98)	0.015
	8	4.153 (105,49)	4.389 (111,48)	0.015
	9	4.645 (117,98)	4.881 (123,98)	0.015
	10	5.137 (130,48)	5.373 (136,47)	0.015



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

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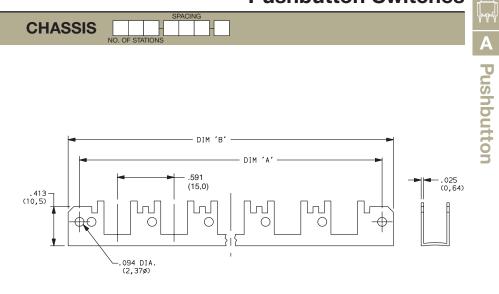
Projection

CHASSIS H

SPACING

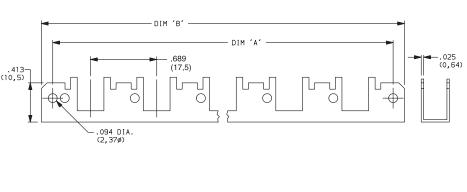
15 15mm

No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.374 (34,90)	1.615 (41,02)	0.005
3	1.969 (50,01)	2.205 (56,01)	0.010
4	2.560 (65,02)	2.796 (71,02)	0.010
5	3.150 (80,01)	3.386 (86,00)	0.010
6	3.741 (95,02)	3.977 (101,02)	0.015
7	4.332 (110,03)	4.568 (116,03)	0.015
8	4.922 (125,02)	5.158 (131,01)	0.015
9	5.513 (140,03)	5.749 (146,02)	0.015
10	6.103 (155,02)	6.339 (161,01)	0.015



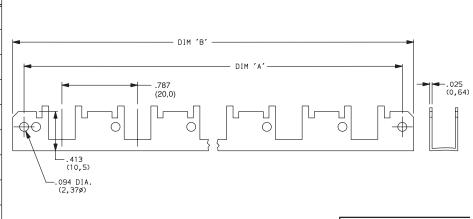
17.5 17.5mm

No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance]
2	1.477 (37,52)	1.713 (43,51)	0.005	
3	2.166 (55,02)	2.402 (61,01)	0.010	
4	2.855 (75,52)	3.091 (78.51)	0.010	
5	3.544 (90,02)	3.780 (96,01)	0.010	(1
6	4.233 (107,52)	4.469 (113,51)	0.015	
7	4.922 (125,02)	5.158 (131,01)	0.015	
8	5.611 (142,52)	5.847 (148.51)	0.015	
9	6.300 (160,02)	6.536 (166,01)	0.015	
10	6.989 (177,52)	7.225 (183,52)	0.015	



20 20mm

No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.575 (40,01)	1.811 (46,00)	0.005
3	2.363 (60,02)	2.599 (66,01)	0.010
4	3.150 (80,01)	3.386 (86,00)	0.010
5	3.938 (100,03)	4.174 (106,02)	0.010
6	4.725 (120,02)	4.961 (126,01)	0.015
7	5.512 (140,00)	5.748 (146,00)	0.015
8	6.300 (160,02)	6.536 (166,01)	0.015
9	7.087 (180,01)	7.323 (186,00)	0.015
10	7.875 (200,03)	8.111 (206,02)	0.015





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

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Third Angle

Projection