C&K®



产品目录简介

开关 • 智能卡互连设备 • 高可靠性连接器

www.ckswitches.com

C&K 完整产品范围

C&K 提供超过 55,000 个独有的部件号，可按照标准目录产品构建，定价和供应。

轻触开关

- 表面安装型，通孔型
- 密封
- 顶部，侧面起动
- 100,000 至 1,000,000 次寿命



按动开关

- 带灯
- 密封
- 小型，超小型，微型
- 表面贴装型，通孔型，可选带衬套



按键开关

- 表面贴装型，通孔型
- 带灯
- 瞬态，push–on/push–off



检测开关

- 表面贴装型，通孔型
- 密封
- 按钮, 快动式，杠杆驱动



导引开关

- 多向
- 操纵杆，摇杆



旋转开关

- 多极，多位可选
- 密封



拨码 / 旋转拨码开关

- 1–16 位
- 表面贴装型，通孔型
- 耐洗
- 顶部，侧面起动



钥匙开关 (钥匙锁)

- 焊片式端子
- PCB 板通孔型
- 带线
- 防静电开关
- 200 到 2,000 个不同的钥匙编码



C&K 完整产品范围

凭借全球最大的销售支持网之一，C&K 的全球销售代表和库存经销商确保了技术支持和产品的供应。

钮子开关

- 小型，超小型，微型
- 密封
- 表面贴装型，通孔型，可选带衬套



微型跷板开关

- 卡入式，通孔型，可安装于面板
- 耐洗
- 可安装于 PCB 板
- 可选带灯



电源跷板开关

- 卡入式，可安装于面板
- 可选带灯
- 多种尺寸和形状可选



滑动开关

- 微型，超微型
- 密封型
- 表面贴装型，通孔型



微动开关

- 微型，超小型
- 密封
- 多种动作力和摆杆样式可选
- 额定功率可达 30A



指轮开关

- 卡入式安装
- 10 位，16 位
- 防尘透镜



智能卡互连设备

- ISO，SIM，SAM 卡
- 超薄
- 防盗版



高可靠性连接器

- 微小型及 D 型接头
- 军事 / 航空及医疗
- 板到板，板到线，线到线



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本目录节录部分 C&K 的部件号。C&K 提供超过 55,000 个部件号。有关产品和配置的完整列表，请参阅 C&K 全线目录。*www.ckswitches.com*

所列的部件号符合 RoHS 标准。

尺寸和规格可能会更改。

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检测
产品选择指南

检测						
系列	**HDT**	**DS**	**HDS**	**HDP**	**SDP**	**SDS**
Travel to Make (mm)	0,3	See datasheet	0,17	0,24	29,2°	0,35
Overtravel (mm)	0,75	See datasheet	0,5	1,66	39,1°	1,65
Total Travel (mm)	1,05	See datasheet	1,07	1,9	68,3°	2,0
Actuator Length (mm)	1,4	See datasheet	1,17	2,15	1,85	2,5
Life Cycle	100,000	20,000 ; 50,000 ; 100,000	100,000	100,000	50,000	50,000
Contact Type	SPST N.O.	SPST SPDT	SPST N.O.	SPST N.O.	SPDT	SPST N.O. SPST N.C.
Max. Voltage	5 V	5 V ; 16 V ; 30 V	5 V	5 V	5 V	12 V
Max. Switching Current	1 mA	1 mA ; 5 mA ; 100 mA	1 mA	1 mA	1 mA	100 mA
Sealing	No	No	No	No	No	No
Mounting	Surface Mount	Thru-hole Solder lug	Surface mount	Surface mount	Surface mount	Surface mount

检测						
系列	**DDS**	**MDS**	**KDS**	**KM**	**MPS**	**ZMA**
Travel to Make (mm)	0,45	2,5 max.	1,25 max.	4,06	See datasheet	1,3 max.
Overtravel (mm)	1,95	0,15 min.	8,9	1,78	See datasheet	0,2 min.
Total Travel (mm)	2,4	2,9	10,16	5,84	See datasheet	1,5
Actuator Length (mm)	2,6	R 8,4	10,16	10,11	N/A	
Life Cycle	50,000	100,000	10,000	10,000	10,000,000	300,000
Contact Type	SPST N.O.	SPDT	SPST N.O. SPST N.C.	SPDT	SPST N.O.	SPDT
Max. Voltage	30 V	30 V	20 V	125 V AC	30 V	125 V
Max. Switching Current	100 mA	300 mA	0.4 VA	250 mA	300 mA	3 Amps
Sealing	No	No	No	Flux tight	Yes	No
Mounting	Thru-hole	Thru-hole & Surface Mount	Snap-in panel	Thru-hole	Wire lead	Thru-hole

检测
产品选择指南

检测						
系列	**KSU**	**KSR2D**	**KSM**	**KSC4D**	**KSJ**	**RB**
Travel to Make (mm)	0,5	0,3	0,3 (to break)	0,6	0,3	10° ; 90°
Overtravel (mm)	1,0	N/A	1,15	N/A	0,75	N/A
Total Travel (mm)	1,5	0,3	1,72	0,6	1,05	N/A
Actuator Length (mm)	1,5	0,8	1,8	2,6	1,4	N/A
Life Cycle	100,000	100,000	50,000	500,000 ; 2,000,000	100,000	20,000 ; 100,000
Contact Type	SPST N.O.	SPST N.O.	SPST N.C.	SPST N.O.	SPST N.O.	SPST SPDT
Max. Voltage	32 V	32 V	32 V	32 V	5 V	5 V ; 24 V
Max. Switching Current	50 mA	10 mA	50 mA	50 mA	1 mA	1 mA ; 25 mA
Sealing	Dust and water drop proof	Dust and flux tight	Flux tight	IP67	Flux tight	No
Mounting	Surface mount	Surface Mount	Surface mount	Surface mount	Surface mount	Thru-hole

检测	
系列	**ATS**
Travel to Make (mm)	0,7 (to break)
Overtravel (mm)	0,4
Total Travel (mm)	1,1
Actuator Length (mm)	1,6
Life Cycle	5,000
Contact Type	SPST N.C.
Max. Voltage	32 V
Max. Switching Current	50 mA
Sealing	IP54
Mounting	Surface mount

拨码
产品选择指南

拨码											
系列	**TDP**	**TDA**	**SDA**	**SD**	**BD**	**BPA**	**TDD**	**SPA**	**RTE**	**CD**	**CRD**
Switch Type	Half-pitch .050" Side	Half-pitch .050"	Low Profile	Low Profile	Standard Profile	Side Actuated	Jumper Switch	Single In-line Package	Rotary & Coded	8 mm Coded Rotary	10 mm Coded Rotary
No. of Positions	2, 4, 8	2-10 (even only)	2-12 (except 11)	2-12 (except 11)	1-12 (except 11)	1-10 & 12	2	2, 4, 6, 8, 10	4, 10, 16	8, 10, 16	10 & 16
Contact Style	SPST	SPST	SPST	SPST	SPST	SPST	SPDT	SPST SP3T SP4T Coded	Coded	Coded	Coded
Profile Off PCB	161 (4,1)	090 (2,3)	189 (4,80) Thru-hole .175 (4,45) SMT	.168 (4,27) Thru-hole .160 (4,06) SMT	.297 (7,55)	.287 (7.3) Thru-hole .274 (6,96) SMT	.090 (2,3)	.244 (6,2) Vertical .169 (4,3)	.169 (4,25) Thru-hole .168 (4,27) SMT	.168 (4,27) Thru-hole .340 (8,6) Rt. angle	.256 (6,5) Vertical .414 (10.5) Rt. angle
Process Sealed	washable with tape	washable with tape seal	washable (tape not required)	washable with tape	washable (tape not required)	washable (tape not required)	washable with tape	washable (tape not required)		washable (tape not required)	washable (tape not required)
Extended Actuator	•		•	•	•	•		•	•	•	•
Flush Actuator	•	•	•	•			•	•	•	•	•
Thru-hole			•	•	•	•		•	•	•	•
Vertical		•	•	•	•		•	•	•	•	•
Right Angle	•				•	•		•	•	•	•
Surface Mount	•	•	•	•		•	•	•	•	•	•
Tape & Reel (SMT only)		•	•	•		•	•	•	•	•	•
Maximum Current	100 mA	100 mA	100 mA	100 mA	100 mA	100 mA	100 mA	0.4 VA	100 mA	0.4 VA	0.4 VA
Retention Feature								•	•	• C option	

按键
产品选择指南

按键					
系列	**K6**	**K12S**	**K12**	**PVA**	**D6**
Size (mm) L x W x H	7,4 x 10,9 x 8,4	12 x 11,6 x 9,1	12 x 12 x 11	9,2 x 10 x 13,5	12 x 11,4 x 14,5
Poles/Throws	SPST momentary	SPST / DPST 2 x SPST momentary	SPST 2 x SPST momentary	DPST / DPDT momentary or push-on / push off	SPST momentary
Maximum Load	30 V 100 mA	30 V / 100 mA	30 V / 100 mA	32 V / 100 mA	32 V 100 mA*
Operating Force	2 N ; 3N ; 5N	3 N ; 3,5 N ; 5 N ; 6 N ; 9 N ; 4/8 N ; 6/12 N	1,5 N ; 2,5 N ; 3,5 N ; 5 N ; 3,5/7 N ; 6/12 N	1,2 N ; 1,7 N ; 3,5 N	1,3 N ; 2,75 N
Travel (standard)	1,5 mm	1,5 mm	1 mm, 1,5 mm 2 mm	Mom. 2,4 mm Push-push 2,4/1,5 mm	1 mm 1,10 mm
Life Cycle	200,000	1,000,000	1,000,000	100,000	250,000
IP rating	IP40	IP40 / IP67	IP40 except for K12C which is IP67	IP40	
Illumination	•	•	•		•
Termination	SMT / Thru-hole	SMT	Thru-hole	Thru-hole	Thru-hole

按键				
系列	**KS**	**Digitast**	**ED/EDM**	**KBD**
Size (mm) L x W x H	12,4 x 12,4 x 9,9	17,1 x 12,3 x 14,3	12,7 x 11,3 x 1,2	15,6 x 15,6 x 15
Poles/Throws	SPST SPDT	SPDT momentary or push-on / push off	SPST momentary	SPST momentary
Maximum Load	50 V / 25 mA	24 V / 10 mA	100 V / 100 mA	12 VDC / 10 mA
Operating Force		1,5 N	2,4 N to 6,5 N	45 gf / 55 gf / 60 gf 0,4 N / 0,5 N / 0,6 N
Travel (standard)	0,75 mm	3 mm	0,3 mm	1,5 ~ 2 mm
Life Cycle	100,000	5,000,000	1,000,000	50,000,000
IP rating			IP67	
Illumination	•	•		
Termination	Thru-hole	Thru-hole	Thru-hole / SMT	Thru-hole

* 最大值分别为电压和电流

导引	
系列	**CS**
Number of directions	4
Size (mm) L x W x H	40 x 40 x 38
Poles/Throws	SP4T
Actuator Type	4-way
Actuation Force (N)	200 ±100 gf / 400 ± 200 gf / 500 ± 200 gf
Contact Type	Silver
Max. Voltage (V)	10
Max. Switching Power (VA)	.01
Life Cycles/per direction	10,000
Sealing	Not sealed

CS 系列
4 路可调方向开关



特点

- 专为镜像控制而设计
- 线束和连接器易于定制
- 简易安装
- 4 路可调方向

典型应用

- 汽车
- 工业

Part Number	Circuit	Mounting Type	Actuation Force	Current Rating	Life Cycle
CS41001E	SP4T	Panel Mount, Front, Snap-in	200 ±100 gf / 400 ± 200 gf / 500 ± 200 gf	0.2 A @ 12 VDC	10,000 cycles

按动
产品选择指南

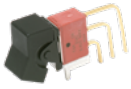
按动									
系列	**ELUM**	**EP**	**TP**	**E020**	**8020**	**E010**	**8060**	**8500**	**KM**
Switch Type	Mom./ Latching	Tiny	Tiny	Snap-acting Mom.	Snap-acting Mom.	Miniature	Alternate Action	Sub-miniature	Sub-miniature
Poles/Throws	SPDT	SPST SPDT DPST	SPST SPDT DPST	SPDT DPST	SPDT, DPDT, 3PDT, 4PDT	SPDT	SPDT, DPDT	SPST	SPST SPDT
Max. Current	3,5 VA	1 Amp	1 Amp	1 Amp	1 Amp	4 Amps	6 Amps	3 Amps	1 Amp
Process Sealed		•		•		•			
Illuminated	•				•		•	•	
PCB Mount Options									
Thru-hole	•	•	•	•	•	•	•	•	•
Vertical		•	•	•	•	•	•	•	•
Right Angle	•	•	•	•	•	•	•	•	•
Surface Mount	•	•							
Panel Mount			•		•	•	•	•	•

按动								
系列	**8600**	**8700**	**GP**	**PN**	**PHB**	**F**	**NE-18**	**FP**
Switch Type	Micro-miniature	Over Travel	Ultra-miniature	Alternate & Mom. Action	Short stroke	Alternate & Mom. Action	Mains / Power	Ultra-miniature
Poles/Throws	SPST	SPST	SPST SPDT	SPDT DPDT 4PDT	DPDT 4PDT	DPDT 4PDT 6PDT 8PDT 10PDT	DPST DPDT Varied	SPST
Max. Current	500 mA	1 Amp	0.4 VA	200 mA	100 mA	500 mA	6 A	0.4 VA
Process Sealed			•					•
PCB Mount Options								
Thru-hole	•	•	•	•	•	•	•	•
Vertical	•	•	•					•
Right Angle			•	•	•			•
Surface Mount			•					
Panel Mount	•	•				•	•	

按动
产品选择指南

按动								
系列	**AP**	**APB**	**HP**	**NP**	**PBA**	**PB**	**PS**	**PNP**
Switch Type	Industrial	Industrial	Hall Effect	Sealed Power	Snap-acting Mom.	Miniature	Subminiature Microminiature	Industrial
Poles/Throws	SPST	SPST	Linear Output	SPDT	DPST	DPDT 4PDT	SPDT DPDT	SPST N.O. SPST N.C. SPDT
Max. Current	400 mA	400 mA	10 mA	5 Amp	250 mA	0,3 A / 1 A	0,1 / 1 A 0,3 / 2 A	10 mA 3 A 5 A
Process Sealed	IP67	IP67	IP68	IP68				IP68
PCB Mount Options								
Thru-hole	•	•		•	•	•	•	•
Vertical	•	•	•	•	•		•	
Right Angle						•	•	
Surface Mount	•	•	•	•	•		•	
Wire leads	•	•	•	•				•
Solder Lug	•	•						•
Surface Mount								
Quick Connect								

跷板
产品选择指南

跷板							
系列	**7000**	**E**	**ET**	**T**	**9000**	**DA**	**D**
Switch Type	Miniature	Miniature	Subminiature	Subminiature	Power Rocker & Lever Handle	Miniature Power	Miniature Power
Poles/Throws	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT	SPST, SPDT, DPDT	SPST, SPDT, DPDT	DPDT	SPST, SPDT	SPST, SPDT DPST, DPDT
Max. Current	5 Amps	7.5 Amps	3 Amps	3 Amps	10 Amps	16 Amps 10 Amps	4 Amps 10 Amps
Washable		•	•				
Illuminated						•	
Panel Mount Options							
Front Mount	•	•		•	•	Snap-in	Snap-in
Rear Mount	•	•	•	•	•		
PCB Mount Options							
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•	•	•	•
Surface Mount			•				

跷板					
系列	**DM**	**DM**	**DF**	**CR**	**SW**
Switch Type	Miniature 2 Pole Power	Miniature Illuminated Power	Power	Round	Miniature Power
Poles/Throws	DPST, DPDT	SPST, DPST	SPST, SPDT, DPST	SPST, SPDT	SPST, SPDT, DPST
Max. Current	3 Amps, 10 Amps	3 Amps, 10 Amps	16 Amps	10 Amps, 6 Amps	3 A ; 6 A ; 6.5 A ; 10 A ; 16 A
Washable					
Illuminated		•		•	•
Panel Mount Options					
Front Mount	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in
Rear Mount			•		
PCB Mount Options					
Vertical					
Right Angle			•		
Surface Mount					

旋转
产品选择指南

旋转								
系列	**A**	**RTA**	**M**	**R**	**F**	**H**	**RW**	**RM**
Switch Type	Multi-pole/ Multi-position	Multi-pole/ Multi-position	Half-inch	Rota-slide	Rota-slide	Power Rota-slide	Subminiature Rotary SMT	Subminiature Rotary
Miniature		•			•		•	•
Low Profile					•		•	
Screwdriver Slot	•	•	•	•	•			•
Power						•		
Maximum Current	2,5 Amps	150 mA	6 Amps	5 Amps	4 Amps	12 Amps	0,1 A 10 mA	0,5 Amps
Poles	1-4	1-4	1 & 2	1 & 2	1 & 2	1 & 2	1	1
Indexing	30° ; 45° ; 90°	22,5° ; 30° ; 36°	30° ; 36°	36°	45° & 90°	45° & 90°	36° & 45°	45°
Splashproof	•		•					
Sealed			• F option					
Non-shorting/ Shorting Contacts	•							
Panel Mount Options								
Front Mount								
Rear Mount	•	•	•	•	•	•		
PCB Mount Options								
Vertical	•	•	•	•	•		•	
Terminations								
Solder Lug	•	•	•	•	•	•		
Wire Lead				•	•	•		
Quick Connect						•		
PC	•	•	•	•	•		•	•

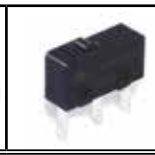
滑动
产品选择指南

滑动							
系列	**ES**	**TS**	**1000**	**GS**	**L**	**LP**	**S**
Switch Type	Tiny	Tiny	Miniature	Ultra-miniature	Miniature	Miniature	Power
Poles	1 & 2	1	1 & 2	1	1 & 2	1 & 2	1 & 2
Momentary			•		•		•
Process Sealed	•			•			
Splashproof	•				•		
Screwdriver Slot					•		•
Housing Marking						•	•
Tape & Reel	•			•			
Max. Current	0,4 VA	3 A	6 A	0,4 VA	4 A	11 A	15 A
Terminations							
Wire Wrap		•	•		•		
Quick Connect			•				•
Wire Lead					•	•	•
Solder Lug			•		•	•	•
PC	•	•	•	•	•		•
PCB Mount Options							
Thru-hole	•	•	•	•	•	•	•
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•			•
Surface Mount	•			•			
Panel Mount Options							
Snap-in						•	•
Mounting Ears			•		•		•
Right Angle	•	•	•	•			•

滑动
产品选择指南

滑动									
系列	**V**	**OS**	**PCM**	**AYZ**	**JS**	**JSM**	**JSX**	**SS**	**SK**
Switch Type	Power & Line Voltage	Miniature	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	Miniature	Miniature
Poles	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1	1	1, 2 & 4	1, 2 & 4
Momentary						•	•		
Process Sealed									
Splashproof									
Screwdriver Slot	•								
Housing Marking									
Tape & Reel			•		•	•	•		
Max. Current	10,1 A	200 mA	0,3 A	100 mA	0,3 A	0,3 A	0,3 A	0,3 A	0,3 A
Terminations									
Wire Wrap									
Quick Connect	•								
Wire Lead									
Solder Lug		•							
PC	•	•	•	•	•			•	•
PCB Mount Options									
Thru-hole	•	•			•			•	•
Vertical	•	•			•			•	
Right Angle	•	•			•				•
Surface Mount			•	•	•	•	•	•	•
Panel Mount Options									
Snap-in	•								
Mounting Ears	•	•						•	
Right Angle	•								

微动
产品选择指南

微动							
系列	**TF**	**TM**	**LC**	**LCA**	**LCS**	**MM**	**ZM**
Switch Type	Miniature	Miniature	Subminiature Precision	Subminiature	Sealed Subminiature	Subminiature Precision	Subminiature
Poles/Throws	SPST, SPDT	SPST, SPDT	SPST, SPDT	SPDT	SPST	SPDT	SPDT
Maximum Current	21 Amps	15 Amps	10,1 Amps	10 Amps	6 Amps	7 Amps	3 Amps
Terminations							
Solder	•	•	•	•	•		
Turret						•	
Quick Connect	•	•	•	•	•		
Screw		•					
Wire Leads			•		•		
PC			•		•	•	•
Formed PC			•		•	•	•
Extended Operations	•	•	•	•			

微动									
系列	**ZMA**	**ZMS**	**MDS**	**HB**	**A**	**TL**	**ZMSM**	**TFS**	**MS**
Switch Type	Subminiature	Sealed Subminiature	Subminiature	Standard Precision	General Purpose	Door Interlock	Sealed Subminiature	Sealed Miniature	Subminiature
Poles/Throws	SPDT	SPDT	SPDT	SPST, SPDT	SPST, SPDT, DP	SPDT	SPDT	SPDT	SPST, SPDT
Maximum Current	3 Amps	3 Amps	300 m Amps	20 Amps	30,1 Amps	15 Amps	3 Amps	10 Amps	0,1 / 5 Amps
Terminations									
Solder		•	•	•		•	•		•
Quick Connect				•	•	•		•	•
Wire Leads		•					•	•	
Screw				•		•			
PCB Thru-hole	•	•	•				•		•
Flat & Step Base				•					
Bushing				15/32-32	3/8-23				
Sealed		•		•			•	•	

钥匙
产品选择指南

钥匙				
系列	**Y**	**YF**	**YM**	**PF & PM**
Switch Type	4, 5, 6 Tumbler	4 Tumbler	4 Tumbler	Tumbler
Lock	Metal	Metal	Metal	Pleastic
Latch Pawl	•			
Miniature		•	•	•
Anti-static	•			
Momentary	•			
Poles	1 & 2	1 & 2	1	1 & 2
Indexing	45° & 90°	45° & 90°	90°	45° & 90°
Max.Current	4 Amps	4 Amps	4 Amps	4 Amps
Panel Mount Options				
Snap-in				•
Bushing	•	•	•	
PC Thru-hole	•			

钥匙			
系列	**A**	**H**	**PL**
Switch Type	4 & 5 Tumbler	5 Tumbler	5 Tumbler
Lock	Metal	Metal	Plastic
Cam			•
Miniature			•
Anti-static	•		
Momentary			
Poles	1 - 4	1 & 2	N/A
Indexing	30°, 45° & 90°	45° & 90°	90°
Max.Current	2,5 Amps	12 Amps	
Panel Mount Options			
Snap-in			•
Bushing	•	•	
Thru-hole	•		

轻触
产品选择指南

表面贴装							
系列	**KXT3**	**KMT0**	**KMT2**	**KMR2-8**	**KMS**	**PTS525**	**PTS530**
Size on PCB L x W (mm)	3 x 2	3 x 2,6	3 x 2,6	4,2 x 2,8	4,2 x 3,55	5,2 x 5,2	4,5 x 4,5
Total Height (mm)	0,6	0,65	0,65	1,9 2,5	1,42	0,8 and 1,5	0,55 and 0,65
Travel (mm)	0,13	0,15	0,15	0,2 to 0,35	0,25 to 0,3	0,3	0,2
Actuation Force (N)	100 gf 160 gf 240 gf 330 gf	1,0 ; 1,6 ; 2,3 ; 3,4	1,0 1,6	1,2 ; 2,0 ; 3,0 ; 4,0	2,0 3,0	160 gf 260 gf	100 gf ; 160 gf ; 200 gf ; 260 gf ; 400 gf ; 600 gf
Contact Type	Silver	Silver	Silver	Silver / Gold	Silver / Gold	Silver	Silver
Max. Voltage (V)	15	32	32	32	32	32	12
Max. Switching Power (VA)	0,5	0,5	0,5	1 / 0,2	1 / 0,2	1	-
Life Cycles	300,000 500,000	300,000 / 600,000 / 1,000,000	150,000	100,000 300,000	100,000	100,000	150,000 to 1,000,000
IP Rating	IP64	IP68	IP54	IP40	IP40	IP40	-

表面贴装						
系列	**PTS540**	**PTS810**	**PTS820**	**PTS830**	**PTS840**	**KSR**
Size on PCB L x W (mm)	3,7 x 3,7	4,2 x 3,2	3,9 x 2,9	3,5 x 2,6	3,5 x 3,55	7,15 x 3,8 7,3 x 3,8
Total Height (mm)	0,55 / 0,65	2,5	1,5 / 2,0 / 2,5	1,4	1,35	2,5
Travel (mm)	0,15	0,15 / 0,2	0,2	0,15	0,2	0,3 to 0,5
Actuation Force (N)	160 gf 230 gf	160 gf ; 260 gf ; 400 gf ; 600 gf	160 gf 250 gf	160 gf 450 gf	160 gf 220 gf	1,2 ; 2,0 ; 3,0 ; 4,5
Contact Type	Silver	Silver	Silver	Silver	Silver	Silver / Gold
Max. Voltage (V)	12	16	12	12	12	32
Max. Switching Power (VA)	-	-	-	-	-	1 / 0,2
Life Cycles	300,000 500,000	50,000 to 150,000	100,000 200,000	200,000 500,000	100,000	100,000 200,000
IP Rating	IP40	IP40	IP40	IP40	IP40	IP50

* 按要求提供其他选项

轻触
产品选择指南

表面贴装 通孔选项			  		
系列	**KSS**	**KSC4V2**	**KSC1-10**	**KSE**	**KT**
Footprint	5,5 x 4,4	2 holes ø 1,1 2 pads 1,5 x 0,8	J 6,8 x 6,2 G 10 x 6,2	6,8 x 6,2	SA 7,5 x 5 SA2 7,5 x 7
Total Height (mm)	1,7	5,0*		3,1 / 4,3	6,6 7,11 with tab
Travel (mm)	0,3	0,7*	0,20 to 0,75 *	0,3	0,3 to 0,5
Actuation Force (N)	2 2,5 4	3.5*	1,1 to 5,5 *	1.5 2.25	3
Contact Type	Silver / Gold	Silver / Gold	Silver / Gold	Silver	Silver / Gold
Max. Voltage (V)	32	32	32	32	50
Max. Switching Power (VA)	1 / 0,2	1 / 0,2	1 / 0.2	1	1 / 0.2
Life Cycles	100,000	300,000	100,000 to 1,000,000	300,000	100,000
IP Rating	IP40	IP67	IP67	IP67	

表面贴装 通孔选项							
系列	**K5AT**	**K8**	**K5V**	**KSF/KSI**	**KSA**	**KSA-V**	**KSA MKII**
Footprint	G 8,4 x 10,8	G 8,4 x 10,8	8 x 9 x 17 / 9 x 13	7,62 x 5,08	7,62 x 5,08	7,62 x 2,54	7,62 x 5,08
Total Height (mm)	6,1	6	9 / 13	2,6	4,7 button option	8	4,7
Travel (mm)	0,5	0,45	1,2	0,3 to 0,5	0,3 to 0,5	0,3 to 0,5	0,3 to 0,5
Actuation Force (N)	4.0	4.0	4.0	1.3 1.6 3.0 5.0	1.3 3.0 5.0	1.3 3.0 5.0	1.3 3.0 5.0
Contact Type	Gold	Silver	Gold	Silver / Gold	Silver / Gold	Silver / Gold	Silver / Gold
Max. Voltage (V)	32	32	32	32	32	32	32
Max. Switching Power (VA)	1	1	1	1 / 0.2	1 / 0.2	1 / 0.2	1 / 0.2
Life Cycles	100,000	300,000	25,000	100,000	100,000	100,000	100,000 1,000,000
IP Rating	IP40	IP40	IP40	IP60	IP60	IP60	IP67

* 按要求提供其他选项

轻触
产品选择指南

表面贴装 通孔选项					
系列	**KSL**	**KSL-V**	**KSJ**	**KSJ-V**	**PTS635**
Footprint	7,62 x 5,08	7,62 x 2,54	7,62 x 5,08	7,62 x 2,54	6 x 3,5
Total Height (mm)	9,9	8	6,65	8	2,5 4,3 5,0
Travel (mm)	0,3 to 0,5	0,3 to 0,5	0,55 to 0,7	0,55 to 0,7	0,25
Actuation Force (N)	1,3 3,0	1,3 3,0	2,0 3,0	2,0 3,0	1,3 2,0 2,6
Contact Type	Silver / Gold	Silver / Gold	Silver / Gold	Silver / Gold	Silver
Max. Voltage (V)	32	32	32	32	12
Life Cycles	100,000	100,000	100,000 30,000	100,000 30,000	20,000
IP Rating	IP60	IP60	IP60	IP60	IP40

表面贴装 通孔选项					
系列	**PTS641**	**PTS645**	**PTS645-V**	**PTS125**	**ITS**
Footprint	6,3 x 6,4	6 x 6	7,0 x 2,5	12 x 12	variety of sizes available
Total Height (mm)	2,5 3,1 3,4	4,3 ; 5,0 ; 7,0 ; 9,5 ;	7,1	4,3 7,3 Sq. 8,5 12,0	
Travel (mm)	0,20 / 0,30	0,25	0,25	0,30	0,25
Actuation Force (N)	160 gf 250 gf 320 gf	1,3 ; 1,6 2,0 ; 2,6	1,3 ; 1,6 2,0 ; 2,6	1,6 2,6	160 gf
Contact Type	Silver	Silver	Silver	Silver	Silver
Max. Voltage (V)	12	12	12	12	12
Life Cycles	100,000	100,000	100,000	200,000	50,000
IP Rating	IP40	IP40	IP40	IP40	IP40

钮子
产品选择指南

钮子							
系列	**7000**	**Military**	**E**	**ET**	**T**	**GT**	**9000**
Switch Type	Miniature	Miniature	Miniature	Subminiature	Subminiature	Ultraminiature	Power
Poles/Throws	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT	SPDT, DPDT, 3PDT	SPST, SPDT, DPDT	SPST, SPDT, DPDT	SPST, SPDT, DPST, DPDT	DPDT
Maximum Current Silver/Gold	5 Amps	5 Amps	7,5 Amps/ 5 Amps	3 Amps/ 2 Amps	3 Amps/ 2 Amps	0,4 VA	10 Amps
Process Sealed			•	•		•	
PCB Mount Options							
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•	•	•	
Vertical Right Angle	•	•	•	•	•	•	•
Surface Mount Options							
Vertical						•	
Right Angle				•		•	
Panel Mount Options							
Rear Mount	•	•	•		•		•
Terminations							
PCB Thru-hole	•	•	•	•	•	•	•
Wire Wrap	•		•	•	•		
Solder Lug	•	•	•		•		•
Quick Connect	•		•				•
Other Available Options							
Support Brackets	•	•	•	•	•	•	•
Snap-in Retention	•		•	•			
ESD Protection	•		•	•	•		
Tape & Reel				•		•	
Bushing Options							
10-48					•		
1/4-40	•	•	•		•		•
15/32	•						•
M6P 0.75 (Metric)	•						

HDT 系列
微型表面贴装检测开关



特点

- 小外型包装
- 设计允许顶部或侧面起动
- 低起动力，最大 35 克
- 贴片机适用，可选卷带包装
- 无卤

典型应用

- 消费类电子产品
- 计算机
- 医疗设备
- ATCA 和 MicroTCA 设备

Part Number	Contact Type	Contact Rating	Pre-Travel	Over Travel	Total Travel	Mechanical / Electrical Life
HDT0001	SPST, NO	1 mA 5 VDC	.30 mm	.75 mm	1.05 mm	100,000 cycles min.

SDP 系列
微型摆锤 SMT 检测开关



特点

- SMT 工艺兼容
- 超薄
- 右侧或左侧起动
- 低致动力
- 低卤 / 无卤

典型应用

- 消费类电子产品
- 电脑
- 医疗设备
- ATCA 和 MicroTCA 设备

Part Number	Contact Type	Contact Rating	Contact Material	Total Travel	Over Travel	Operating Life
SDP002	SPDT, NO	1 mA 5 VDC	silver over nickel	68.3° from center	39.1° (1.31 mm)	50,000 cycles

参阅全线目录以查看操作区域图

KSU 系列
微型表面贴装检测开关



特点

- 新的多接点结构
- 金属起动器
- 低起动力
- 镀金接点
- 贴片机适用

典型应用

- 手机等手持设备
- 便携式医疗器械
- 音频设备
- 汽车
- 警报装置
- 支付终端

Part Number	Contact Type	Contact Material	Travel	Operating Force	Operating Life
KSU211WLFG	SPST NO	Silver	0.65 mm - 0.45/+0.25 mm	0.7 ± 0.5 N	100,000 cycles
KSU213WLFG	SPST NO	Gold	0.65 mm - 0.45/+0.25 mm	0.7 ± 0.5 N	100,000 cycles

KSM 系列
侧面起动检测开关



特点

- 超薄 – 1.5 毫米
- 瞬时
- 热成型卷带包装
- 低起动力

典型应用

- 汽车
- 位置检测开关
- 边缘卡复位开关
- 智能卡存在开关检测器
- 篡改
- DSL 和光纤网络

Part Number	Contact Type	Contact Material	Travel	Operating Force	Operating Life
KSM1131D LFG	SPST Normally closed	Gold	1.25 ± 0.2 mm	1.05 N	50.000 cycles

SDS 系列
侧面起动检测开关



特点

- 超薄封装仅占 PCB 的 2 mm
- 2 mm 超行程是检测器应用的理想选择
- 低起动力 (最大 75 克)
- 符合 RoHS 标准并兼容

典型应用

- 医疗设备
- 消费电子设备
- PCB 锁凸轮检测
- 智能卡检测
- ATCA 和 MicroTCA

Part Number	Contact Type	Contact Rating	Contact Material	Total Travel	Over Travel	Operating Life
SDS0001	SPST NO	100 mA @ 12 VDC	Silver	2,0 mm	1,65 mm	50,000 cycles

KSC4D 系列
用于 SMT 的密封检测开关



特点

- 软性材料起动器
- 可选永久致动
- J 型弯或鸥翼式端子
- 卷带
- IP67

典型应用

- 汽车
- 手机
- 工业电子
- 计算机基础设施和 IT

Part Number	Actuator Height	Operating Force	Contact Material	Electrical Life	Travel
KSC4D2J50SH	5.2 mm	2 ± 1 N	Silver	2,000,000 cycles	0.35 ± 0.85 mm

KSJ 系列
球形起动器检测开关



特点

- 直立或垂直检测
- 球形起动器允许致动 +/– 30°
- 高行程 / 小切换
- 适用于凸轮起动

典型应用

- 汽车
- 工业电子
- 计算机基础设施和 IT

Part Number	Operating Force	Contact Material	Electrical Life	Travel
KSJ0VD1860SH LFTR	6.0 N	Silver	200,000 cycles	0,50 ± 0,25 mm

KM 系列
超小型检测开关



特点

- 可靠的接点设计
- 提供预行程和超行程
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　0.25 AMPS @ 125 V AC 或 DC

典型应用

- 警报系统
- 电脑
- 检测开关应用

Part Number	Function	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
KM1202A08BE	On-Mom., SPDT	.398” high, .122” dia.	Right angle, PC thru-hole	Gold	10,000 cycles
KM1202A08QE	On-Mom., SPDT	.398” high, .122” dia.	Right angle, PC thru-hole	Silver	10,000 cycles

MPS 系列
磁性接近传感器



特点

- 寿命长达 4 百万次
- 密封接点
- 高质量结构
- 快速，简易安装
- 额定值　3.0 W (最大值) @ 30 V DC 或 30 V AC (最大值) @ 0.3 AMP (最大值)
  1.0 毫秒 (最大值) 操作时间 (含反弹); 最大 1.0 AMP 搭载电流

典型应用

- 汽车传感器和指示器
- 工业传感器
- 工厂自动化设备

Part Number	Function
MPS45WGW	Subminiature surface mount (adhesive or flange), side exit leads, 1” make gap.

RB 系列
滚珠传感器开关



特点

- 紧凑型屏蔽设计
- 10 度检测角度
- 导电球可在管内移动以产生信号和控制

典型应用

- 运动检测
- 家用电器
- 消费类电子产品

Part Number	Contact Type	Contact Rating	Sensor Angle	Operating Life	Termination
RB-231X2	SPST	1 mA 5 V DC resistive load max	0˚ to 10˚ scope	100,000 cycles	PC Thru-hole
RB-220-07 R	SPST	1 mA 5 V DC resistive load max	15˚ to 90˚ scope	100,000 cycles	PC Thru-hole
RB-441-45	SPDT	25 mA 24 V DC resistive load max	45˚ ± 15˚	100,000 cycles	PC Thru-hole

ATS 系列
防篡改开关



特点

- 常闭功能
- 垂直检测
- 耐长时间压缩
- IP54

典型应用

- 智能仪表
- 警报系统
- 防篡改设备

Part Number	Contact Type	Contact Material	Contact Rating	Operating Force	Operating Life	Termination
ATS2D1GNC LFS	SPST-NC	Silver	50 mA @ 32 VDC	2 N	5,000 cycles	PC Thru-hole
ATS2D1GNC LFS	SPST-NC	Gold	50 mA @ 32 VDC	2 N	5,000 cycles	PC Thru-hole

注：本目录节录部分 C&K 的部件号。C&K 提供超过 55,000 个部件号。
有关产品和配置的完整列表，请参阅 C&K 全线目录。
尺寸和规格可能会更改。

TDA 系列
超微型表面贴装半间距拨码开关



特点

- 双叉接点，提高电气可靠性
- 密封处理使其适合表面贴装焊接与水洗
- 额定值　24 V DC，25 mA (开关)
  50 V DC，100 mA (稳态)

典型应用

- 手持电子设备
- 便携式电脑和电子设备
- 仪器仪表和控制

Part Number	Number of Positions	Actuator	Termination	Contact Material	Electrical Life
TDA04H0SB1R	SPST, 4 pos.	Flush Actuator	SMT, Gullwing	Gold	1,000 cycles
TDA08H0SB1R	SPST, 8 pos.	Flush Actuator	SMT, Gullwing	Gold	1,000 cycles
TDA10H0SB1R	SPST, 10 pos.	Flush Actuator	SMT, Gullwing	Gold	1,000 cycles

SDA 系列
超薄拨码开关



特点

- 薄形的设计节省了空间
- 通孔和表面贴装型
- 高压接点，清洗时无需胶带密封
- 额定值　25 mA @ 24 V DC 或 100 mA @ 5 V DC

典型应用

- 工业控制寻址开关
- 计算机和外围设备的逻辑切换
- 功能控制多种应用

Part Number	Number of Positions	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
SDA08H0B	SPST, 8 pos.	Flush Actuator – With Top Tape	PC thru-hole	Gold plating	1,000 cycles
SDA03H0SBR	SPST, 3 pos.	Flush Actuator – With Top Tape	SMT, Gullwing	Gold plating	1,000 cycles
SDA04H0SBR	SPST, 4 pos.	Flush Actuator – With Top Tape	SMT, Gullwing	Gold plating	1,000 cycles

BPA 系列
侧面起动拨码开关



特点

- 侧面起动接点
- 可用于通孔或 SMT 型
- 高压接点，清洗时无需胶带密封
- 额定值　100 mA (最大值) @ 5V DC 或 25 mA (最大值) @ 24V DC

典型应用

- 工业控制寻址开关
- 计算机和外围设备的逻辑切换
- 对多种应用的功能控制

Part Number	Number of Positions	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
BPA04B	SPST, 4 pos.	Side actuator / Piano	PC thru-hole	Gold over nickel plate	1,000 cycles
BPA01B	SPST, 1 pos.	Side actuator / Piano	PC thru-hole	Gold over nickel plate	1,000 cycles
BPA05SB	SPST, 5 pos.	Side actuator / Piano	SMT, Gullwing	Gold over nickel plate	1,000 cycles

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RTE 系列
超薄旋转拨码开关



特点

- 微型尺寸，采用坚固不锈钢盖
- 旋转 SPDT，SP3T，SP4T 功能
- 旋转二进制十进制和十六进制编码
- 额定值　镀金版本　100 mA (最大值)
  10 μ A min 30 V DC (最大值) 20 mV DC min
  镀银版本　100 mA (最大值)
  1 mA (最小值) 50 V DC (最大值) 2 V DC (最小值)

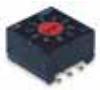
典型应用

- 计时器，自动化组件
- 电脑和外设
- 警报，烟雾探测器，门禁控制
- 仪器仪表
- 寻址切换应用

Part Number	Switch Function	ESD Protection / Actuator	Mounting Style / Termination	Contact Material	Electrical life
RTE1002G14	10 position, BCD	Without ESD, shaft for button	SMT, Gullwing	Gold	20,000 cycles
RTE1600V44	16 position, hexadecimal	Without ESD, Flush, screwdriver slot	Right angle	Gold	20,000 cycles
RTE0400N04	4 position, single pole	Without ESD, Flush, screwdriver slot	PC thru-hole	Gold	20,000 cycles

CD / CRD 系列
8 mm / 10 mm 拨码编码旋转开关





特点

- 密封处理 – 耐焊接和清洁
- 通孔和表面贴装型号
- 清脆明确的手感
- 额定值　0.4 VA (最大值) @ 20 V AC 或 V DC (最大值)

典型应用

- 寻址切换应用
- 数据存储设备
- 电脑和外设
- 仪器仪表

Part Number	Switch Function	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
CD10RM0SBR	10 position, BCD	Flush, screwdriver slot	SMT, Gullwing	Gold	20,000 cycles
CD16RM0SBR	16 position, Hexadecimal	Flush, screwdriver slot	SMT, Gullwing	Gold	20,000 cycles
CRD10RM0CB	10 position, BCD	Flush, screwdriver slot	PC thru-hole	Gold	20,000 cycles
CRD16CM0SBR	16 position, Hexadecimal complement	Flush, screwdriver slot	SMT, Gullwing	Gold	20,000 cycles

D6 系列
单刀单掷瞬时按键开关



特点

- 良好的触感反馈
- 高温
- 各种颜色和形式

典型应用

- 视频
- 电子游戏
- 家电

Part Number	Function	Button Type / Color	Travel	Operating Force
D6R90 F1 LFS	SPST, NO	Round / Black	0.6 mm	1.3 N
D6C90 F1 LFS	SPST, NO	Square / Black	0.6 mm	1.3 N
D6R10 F1 LFS	SPST, NO	Round / Gray	0.6 mm	1.3 N
D6L90 F1 LFS	SPST, NO	Plunger / Black	0.6 mm	1.3 N

K12 系列
高性能按键开关



特点

- 优秀的触感
- LED 颜色，行程和起动器操纵力的广泛选择
- 防水版本可选
- 专为低电平切换而设计
- 双冲程版本可用

典型应用

- 汽车
- 越野运输
- 工业电子
- 计算机与网络设备

Part Number	Type	Button Type / Color	Travel	Operating Force
K12GO BK 1.5 6/12N	Two-step switch	Black cap	1.5 mm	6 / 12 N
K12P BK 1 5N	With snap-in pegs	Black cap	1 mm	5 N
K12A BK 1 5N	No snap-in pegs	Black cap	1 mm	5 N
K12C 1 5N	Sealed contact with rubber cap (IP67)	Black rubber cap	1 mm	5 N
K12PL WH 1.5 5N LV302	With central LED	White LED	1.5 mm	5 N

K12S 系列
高性能 SMT 按键开关



特点

- IP67
- SMT 无铅焊接工艺兼容，卷盘包装可选
- 带灯
- 优秀的触感
- 高可靠性 / 长寿命
- DPST，双阶和检测版本可用
- 常闭版本可选

典型应用

- 汽车，摩托车
- 越野运输
- 工业电子
- 医疗
- 网络

Part Number	Sub-Series	Type	LED Color	Travel	Operating Force	Contact Arrangement
K12SB S 1.5 9N O LFTX	IP67 with peg	SPST	None	1.5 mm	9 N	NO
K12SB S 1.5 3.5N C LFTX	IP67 with peg	SPST	None	1.5 mm	3.5 N	NC
K12SC L 1.5 WHO 9N O LFTX	IP40 without peg	SPST	White	1.5 mm	9 N	NO
K12SC D 1.5 4/8N OO LFTX	IP40 without peg	DPST	None	1.5 mm	4 / 8 N	2 NO

PVA 系列
短行程按键开关



特点

- 紧凑的设计
- 短行程闭锁
- 各种起动器高度和样式
- 适用于中等功率应用

典型应用

- 汽车 (空调，照明)
- 工业
- 控制面板

Part Number	Function	Mechanical Function	Total Height	Travel	Operating Force
PVA1EEH1 3.5N V2	DPST	Push-push	17.5 mm	2.4 mm	3.5 N
PVA1OAH1 1.2N V2	DPST	Momentary	17.5 mm	2.4 mm	1.2 N
PVA2EEH3 1.2N V2	DPDT	Push-push	20.5 mm	2.4 mm	1.2 N
PVA2OAH5 1.7N V2	DPDT	Momentary	13 mm	2.4 mm	1.7 N

Digitast 系列
微型单刀双掷按键开关



特点

- 专为低电平切换而设计
- 高可靠性 / 长寿命
- 多个按钮选项

典型应用

- 医疗
- 仪器仪表
- 工业电子

Part Number	Function	Button	Button Color	Contact Material	Termination
SER BK AU OA	SPDT, Momentary	Narrow button	Black	Gold	PC Thru-hole
SET BK AU OA	SPDT, Momentary	Wide button	Black	Gold	PC Thru-hole
SERU AU OA	SPDT, Momentary	-	-	Gold	PC Thru-hole
SRK GY	-	Narrow button	Gray	-	-
STK WH	-	Wide button	White	-	-

EP 系列
密封微型按动开关



特点

- 密封处理使其适合焊接与水洗
- 卡扣式的起动器可适用标准帽盖
- 额定值　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)

典型应用

- 电信和网络设备
- 电脑及周边设备
- 仪器和控制

Part Number	Function	Mounting Style / Termination	Plunger	Contact Material	Operating Life
EP11SD1ABE	SPST Off-Mom.	Right angle, PC thru-hole	.215” high	Gold	60,000 cycles
EP11SD1AVBE	SPST Off-Mom.	Vertical right angle, PC thru-hole	.215” high	Gold	60,000 cycles
EP11SD1CBE	SPST Off-Mom.	PC thru-hole	.215” high	Gold	60,000 cycles
EP11SD1SAPE	SPST Off-Mom.	Right angle, Surface mount	.215” high	Gold, matte-tin	60,000 cycles
EP12SD1ABE	SPDT On-Mom.	Right angle, PC thru-hole	.215” high	Gold	30,000 cycles

TP 系列
微型按动开关



特点

- 超小型 – 适用 1A
- 端子密封，底部可水洗清洁
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　1 AMP @ 120 V AC 或 28 V DC

典型应用

- 电信和网络设备
- 电脑及周边设备
- 仪器和控制

Part Number	Function	Actuator or Bushing	Mounting Style / Termination	Contact Material	Operating Life
TP11SH8ABE	SPST Off-Mom.	.155” high plunger, unthreaded; .220” high bushing, round	Right angle, PC thru-hole	Gold	60,000 cycles
TP11SH9ABE	SPST Off-Mom.	.155” high plunger, unthreaded; .220” high bushing, flat	Right angle, PC thru-hole	Gold	60,000 cycles
TP11SH9CBE	SPST Off-Mom.	.155” high plunger, unthreaded; .220” high bushing, flat	PC thru-hole	Gold	60,000 cycles
TP11SHZQE	SPST Off-Mom.	.155” high plunger, threaded; .220” high bushing, flat	Solder lug	Silver	60,000 cycles
TP12SH9ABE	SPDT On-Mom.	.155” high plunger, unthreaded; .220” high bushing, flat	Right angle, PC thru-hole	Gold	30,000 cycles

FP 系列
密封超微型按动开关



特点

- 密封处理使其适合焊接与水洗
- 额定值 0.4 VA (28 V DC 或 V AC) 最大
- 使用寿命 50,000 次

典型应用

- 网络设备
- 调制解调器
- 复位功能
- 仪表

Part Number	Function	Actuator Length	Mounting Style	Contact Material	Cap
FP11SPC1B1TP00	SPST Off-Mom.	3.3 mm	Vertical	Gold over nickel plate	No cap
FP11SPA1B1TP02	SPST Off-Mom.	3.3 mm	Right angle	Gold over nickel plate	Black cap (bulk bagged)
FP11SPC1B1TP02	SPST Off-Mom.	3.3 mm	Vertical	Gold over nickel plate	Black cap (bulk bagged)
FP11SPA1B1TP03	SPST Off-Mom.	3.3 mm	Right angle	Gold over nickel plate	Red cap (bulk bagged)
FP11SPC1B1TP03	SPST Off-Mom.	3.3 mm	Vertical	Gold over nickel plate	Red cap (bulk bagged)

8020 系列
微动瞬时按动开关



特点

- 良好的触感
- 端子密封，底部可水洗清洁
- 使用寿命 6 万次
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  银镀金版本　1 AMP @ 120 V AC 或 28 V DC

典型应用

- 电信和网络设备
- 电脑外设
- 仪器和控制

Part Number	Function	Actuator or Bushing	Bushing	Mounting Style / Termination	Contact Material	Cap / Frame Color
8121SHZGE	SPDT On-Mom.	Plunger	.250” high, flat	Solder lug	Gold over silver	None
8125SHZBE	SPDT On-Mom.	Plunger	.250” high, flat	Solder lug	Gold	None
8221SHZGE	DPDT On-Mom.	Plunger	.250” high, flat	Solder lug	Gold over silver	None
8121J81ZGE22	SPDT On-Mom.	Snap-in with frame	None	Solder lug	Gold over silver	Black / Black
8125SHCBE	SPDT On-Mom.	Plunger	.250” high, flat	PC thru-hole	Gold	None

PS 系列
微型按动开关



特点

- 紧凑型微型尺寸
- 瞬时或闭锁
- 短路或非短路

典型应用

- 汽车内部照明
- 电脑外设
- 家电
- 消费类电子产品

Part Number	Function	Footprint	Height	Operating Force	Operating Life	Total Travel
PS-12G01	SPDT, Latching	16.8 x 14 mm	26.4 mm	400 gf	20,000 cycles	5 mm
PS-12G03	SPDT, Latching	16.8 x 14 mm	27.2 mm	650 gf	20,000 cycles	4.5 mm
PS-2214-L NS PA	DPDT, Latching	5.8 x 5.8 mm	7.5 mm	150 gf	10,000 cycles	2.3 mm
PS-2214-F NS PA	DPDT, Momentary	5.8 x 5.8 mm	7.5 mm	150 gf	10,000 cycles	2.3 mm

AP 系列
工业按动开关



特点

- IP67 密封
- 使用寿命 50 万到 100 万次
- 带灯 / 不带灯，多色帽盖
- SPST，常开
- 额定值　200 mA @ 24 V DC 电阻 (500,000 次)
  100 mA @ 50 V 直流电阻 (500,000 次)
  400 mA @ 32 V 交流电阻 (500,000 次)
  125 mA @ 125 V 交流电阻 (1,000,000 次)

典型应用

- 恶劣的环境
- 越野车
- 工业
- 医疗
- 运输
- 操纵杆控制模块
- 游戏机
- 军事

Part Number	Operating Force	Total Travel	Actuator Style	Actuator Color	Bushing Style	Termination	Contact Material
AP2D200TWBE	2 N	2.1 ± 0.2 mm	Dome / Convex	Black	Threaded plastic	12” wire leads 22 AWG	Gold
AP4D200TZBE	4 N	2.1 ± 0.2 mm	Dome / Convex	Black	Threaded plastic	Solder lug	Gold
AP2D300SZBE	2 N	2.1 ± 0.2 mm	Dome / Convex	Red	Snap-in plastic	Solder lug	Gold
AP4E300TZBE	4 N	2.1 ± 0.2 mm	Extended Dome	Red	Threaded plastic	Solder lug	Gold

APB 系列
背光按动开关



特点

- IP67 密封
- 1,000,000 次寿命
- 照明
- 螺纹或卡入式安装
- 符合 RoHS 标准

典型应用

- 恶劣的环境
- 越野车
- 运输
- 操纵杆控制模块
- 游戏
- 军事

Part Number	Operating Force	Total Travel	Cap Symbol *	Actuator Color	Bushing Style	Termination	Contact Material
APB4E01TZBE-001	4 N	2.1 ± 0.2 mm	Plus	Black	Threaded plastic	Solder Lug	Gold
APB4E01TZBE-002	4 N	2.1 ± 0.2 mm	Lock	Black	Threaded plastic	Solder Lug	Gold

* 有关符号的完整选项，请参阅 C&K 全线目录或网站

NP 系列
密封工业按动开关



特点

- IP68 密封
- 多种外壳类型
- 额定值　10 mA / 5 V DC 电阻 (1,000,000 次)
  1 A / 32 V 直流电阻 (100,000 次)
  5 A / 32 V 直流电阻 (25,000 次)
  3 A / 32 V 直流电感 (25,000 次)

典型应用

- 恶劣的环境
- 越野车
- 工业
- 运输
- 军事

Part Number	Operating Force	Total Travel	Actuator Style	Actuator Color	Housing Style	Termination	Contact Material
NP8S2D203QE	8 N	1.6 ± 0.15 mm	Standard	Black	Dome bezel	Solder lug	Silver
NP8S2R203QE	8 N	1.6 ± 0.15 mm	Standard	Black	Rear mount	Solder lug	Silver
NP8S2T203QE	8 N	1.6 ± 0.15 mm	Standard	Black	Std threaded mount	Solder lug	Silver
NP8S3D203QE	8 N	1.6 ± 0.15 mm	Standard	Red	Dome bezel	Solder lug	Silver
NP8S2D2W4QE	8 N	1.6 ± 0.15 mm	Standard	Black	Dome bezel	4 x 12” 22 AWG UL 1569 wire	Silver

PNP 系列
密封按动开关



特点

- IP68 密封，以承受恶劣环境
- 多种外壳类型
- 更长的焊接引线，便于安装电线
- 电阻负载下可达 5A
- 额定值　银 (Q): 5 A / 32 V DC 电阻 (25,000 次)
  3 A / 32 V DC 电阻 (25,000 次)
  金 (G): 10 mA / 5 V DC 电阻 (1,000,000 次)

典型应用

- 控制手柄
- 越野面板
- 重型设备
- 工业仪器
- 升降机
- 输送机控制

Part Number	Operating Force	Total Travel	Actuator Style	Actuator Color	Housing Style	Circuit	Termination	Contact Material
PNP8S2T2C03GE	8 N	2 mm max.	Standard	Black	Standard	SPDT	Solder Lug	Gold
PNP8S2T2C03QE	8 N	2 mm max.	Standard	Black	Standard	SPDT	Solder Lug	Silver
PNP8S2D2YW2QE	8 N	2 mm max.	Standard	Black	Dome	SPST NC	2 x 12” 22 AWG UL 1569 wire	Silver
PNP8S2T2CW3QE	8 N	2 mm max.	Standard	Black	Standard	SPDT	3 x 12” 22 AWG UL 1569 wire	Silver

7000 系列
微型跷板和杠杆手柄开关



特点

- 多极和多位可选
- 各种起动器和端子可选
- 端子密封可兼容底部清洗
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　5 AMPS @ 120 V AC 或 28 V DC; 2 AMPS @ 250 V AC

典型应用

- 电信
- 仪表
- 医疗设备

Part Number	Function	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
7101J1AV2QE2	SPDT On-None-On	.531" long rocker	Vertical right angle, PC thru-hole	Silver	100,000 cycles
7101J1AQE2	SPDT On-None-On	.531" long rocker	Right angle, PC thru-hole	Silver	100,000 cycles
7101J1ABE2	SPDT On-None-On	.531" long rocker	Right angle, PC thru-hole	Gold	100,000 cycles

E 系列
密封微型跷板和杠杆手柄开关



特点

- 密封处理使其适合焊接与水洗
- ESD 电阻 – 所有起动器选项
- 跷板，外壳和衬套 UL 94V–0
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　7.5 AMPS @ 125 V AC 或 28 V DC; 3 AMPS @ 250 V AC

典型应用

- 电信
- 仪表
- 电脑及周边设备

Part Number	Function	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
E101J1AQE2	SPDT On-None-On	.531" long rocker	Right angle, PC thru-hole	Silver	40,000 cycles
E201J1V31QE2	DPDT On-None-On	.531" long rocker	.460" high, V-bracket, snap-in	Silver	40,000 cycles
E101J3V31QE2	SPDT On-None-On	.906" long rocker	.460" high, V-bracket, snap-in	Silver	40,000 cycles

D 系列
微型卡入式电源跷板开关



特点

- 瞬时和保持型号可选
- 一般和快速连接端子
- 采用嵌入式支架可防止意外启动
- 额定值可参考网页目录
- 接点材料 – 银

典型应用

- 小家电
- 电脑和外设
- 医疗设备

Part Number	Function	Mounting Style / Color	Mounting Style / Termination	Markings	Electrical Life
D502J12S2AHQA	SPST, On-None-Off	Snap-in, black	Right angle, PC thru-hole	O I	10,000 cycles
D101J12S215PQA	SPDT, On-None-On	Snap-in, black	PC thru-hole	O -	10,000 cycles
D501J12S2AHQA	SPDT, On-None-On	Snap-in, black	Right angle, PC thru-hole	O I	10,000 cycles

注：本目录节录部分 C&K 的部件号。C&K 提供超过 55,000 个部件号。
有关产品和配置的完整列表，请参阅 C&K 全线目录。
尺寸和规格可能会更改。

DF 系列
电源跷板开关



特点

- 功率切换可达 16 AMPS
- 子面板和前面板安装
- 多位和多极功能可选
- 提供 UL 94V–0 级材料
- 额定值　16 AMPS @ 125，250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC (UL)

典型应用

- 排烟机吊扇上
- 小型和大型家电

Part Number	Function	Housing Style / Color	Mounting Style / Termination	Contact Material	Electrical Life	Markings
DF62J12S2AHQA	DPST, Off-On	Sub-panel, black	Right angle, PC thru-hole	Silver (UL)	10,000 cycles	OI
DF62J12S2APQA	DPST, Off-On	Sub-panel, black	Right angle, PC thru-hole	Silver (UL)	10,000 cycles	O-
DF62J12S215PQA	DPST, Off-On	Sub-panel, black	Quick connect	Silver (UL)	10,000 cycles	O-

SW 系列
跷板开关



特点

- 椭圆形
- 几种颜色选择 (黑色，白色，杏仁，饼干)
- 前面板安装
- 额定值　6.5 AMP @ 125 V AC

典型应用

- 电脑
- 电源
- 家电
- 健身器材
- 越野车

Part Number	Function	Actuator	Color	Termination
SW-13A65N-A01 BK	SPDT, On-Off-On	Concave (Curved)	Black	Quick Connect
SW-13A65N-A01	SPDT, On-Off-On	Concave (Curved)	White	Quick Connect

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尺寸和规格可能会更改。

A 系列
1–4 极旋转开关



特点

- 多极和多位可选
- 扎实的制动
- 短路和非短路接点
- 面板和 PCB 安装
- 电气寿命 15,000 次断电周期，高达 30 万次满载制动操作

典型应用

- 汽车
- 大小家电
- 工业设备

Part Number	Function	Contact Rating	Mounting Style / Termination	Contact Material	Seal
A10305RNCB	SP, 30° Index, 3 pos. Non-shorting	0.4 VA MAX. @ 20 V AC or DC MAX	PC Thru-hole	Gold	None
A11405RNZQ	SP, 90° Index, 2 pos. Non-shorting	SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125V DC (UL/CSA). CARRY-5 AMPS CONTINUOUS	Solder lug	Silver	None
A20605RNCQK	DP, 30° Index, 6 pos. Non-shorting	SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125V DC (UL/CSA). CARRY-5 AMPS CONTINUOUS	PC Thru-hole	Silver	Epoxy & splashproof bushing seal

R 系列
ROTA–SLIDE® 旋转开关



特点

- 多极和多位
- 扎实的制动
- 面板和 PCB 安装
- 封闭式
- 电力寿命　满载 10,000 次制动和断路周期
- 额定值　5 AMPS @ 125 V AC; 2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL); 1/8 HP @ 125 和 250 V AC (UL)

典型应用

- 吊扇
- 工业设备
- 便携式工具

Part Number	Function	Actuator	Mounting Style	Mounting Style / Termination
R20507RR02Q	DP, 36° Index, 5 pos.	.500” high with .156” flat	3/8-32 threaded bushing	PC Thru-hole
R20407RR03Q	DP, 36° Index, 4 pos.	.500” high with .156” flat	3/8-32 threaded bushing	Solder lug with hole
R10815RS02Q	SP, 36° Index, 8 pos.	Screwdriver slot without bushing	PC without bushing	PC Thru-hole

RW 系列
小型旋转开关



特点

- 8 个和 10 个位置可选
- 超小型设计

典型应用

- 数码相机
- 视听设备
- 消费类电子产品

Part Number	Function	Contact Rating	Twist Force	Operating Life	Termination
RW-108-NS RT	1 pole 8 position	0.1A @ 16 V DC	150 ± 100 gf	10,000 cycles	SMT
RW-1106-NS RT	1 pole 10 position	10 mA @ 5 V DC	90 ± 15 gf	7,000 cycles	SMT

1000 系列
微型滑动开关



特点

- 各种起动器和端子可选
- 面板安装片可选
- 端子密封可兼容底部清洗
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　6 AMPS @ 120 V AC 或 28 V DC，3 AMPS @ 250 V AC

典型应用

- 测试和测量设备
- 电信
- 电脑及周边设备

Part Number	Function	Mounting Style	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
1101M2S3CQE2	SPDT On-None-On	PC mount without tabs	.200” high	PC thru-hole	Silver	40,000 cycles
1101M2S3CBE2	SPDT On-None-On	PC mount without tabs	.200” high	PC thru-hole	Gold	100,000 cycles
1101M2S3AV2QE2	SPDT On-None-On	PC mount without tabs	.200” high	Vertical right angle, PC thru-hole	Silver	40,000 cycles
1101M1S3ZQE2	SPDT On-None-On	Panel mount with tabs	.200” high	Solder lug	Silver	40,000 cycles

L 系列
微型滑动开关



特点

- 扎实的制动
- 密封外壳
- 保持和瞬时功能可选
- 兼容 PCB 和面板安装
- 额定值　4 AMPS @ 125 V AC 或 28 V DC; 2 AMPS @ 250 V AC;
  0.5 AMP @ 125 V DC (UL)

典型应用

- 通信设备
- 照明设备

Part Number	Function	Actuator	Mounting Style / Termination	Contact Material	Electrical Life
L102011MS02Q	SPDT	.200” high	PC thru-hole	Silver	10,000 cycles
L202011MS02Q	DPDT	.200” high	PC thru-hole	Silver	10,000 cycles
L20202MA04Q	DPDT	.335” high	Right angle, PC thru-hole	Silver	10,000 cycles
L202031MS02Q	DPDT	.375” high	PC thru-hole (with detent)	Silver	10,000 cycles

V 系列
电源和线路电压选择滑动开关



特点

- 起动器带螺丝刀槽
- 额定值　10 GPA @ 125 V AC 50/60 Hz T85;
  5 GPA @ 250 V AC 50/60 Hz T85;
  2 (0.5) A @ 250 V AC 50/60 Hz T85;
  4 RA @ 30 V DC T85

典型应用

- 家电

Part Number	Function	Mounting Style	Mounting Style / Termination	Contact Material	Electrical Life
V80212MS02Q	DPDT	PC Thru-hole	PC thru-hole	Silver	10,000 cycles
V80212MA08Q	DPDT	Right angle, PC thru-hole	Right angle PC thru-hole	Silver	10,000 cycles
V80212S205Q	DPDT	Snap-in panel	Quick connect	Silver	10,000 cycles

AYZ 系列
微型滑动开关



特点

- 小外形
- 单极和双极型号
- 双掷和三掷型号
- 额定值为 100 mA @ 12 V DC

典型应用

- 电脑外设及网络产品
- 电信产品
- 测试和测量设备

Part Number	Function	Actuator	Termination	Contact Material	Electrical Life
AYZ0102AGRLC	SPDT, On-On	L: 1.0 mm	SMT	Copper alloy, silver plated	10,000 cycles
AYZ0202AGRLC	DPDT, On-On	H: 1.0 mm	SMT	Copper alloy, silver plated	10,000 cycles
AYZ0203AGRLC	DP3T, On-On-On	H: 1.0 mm	SMT	Copper alloy, silver plated	10,000 cycles

JS 系列
超小型滑动开关



特点

- 扎实的制动
- 超薄
- 可满足 260° IR 回流焊
- 额定值 0.3A @ 6 V DC

典型应用

- 电信产品
- 电脑外设
- 温控器选择开关
- 仪表

Part Number	Function	Mounting Style / Termination	Contact Material	Electrical Life
JS203011CQN	DP3T	PC thru-hole	Copper alloy, silver plated	5,000 cycles
JS202011SCQN	DPDT	Surface Mount	Copper alloy, silver plated	5,000 cycles
JS202011AQN	DPDT	Right angle, PC thru-hole	Copper alloy, silver plated	5,000 cycles

OS 系列
微型滑动开关



特点

- 各种起动器和端子可选
- PC 和面板安装
- 镀金或镀银
- 短路或非短路接点
- 额定值　0.1A @ 12 V DC

典型应用

- 测试和测量设备
- 电脑外设及网络产品
- 消费类产品

Part Number	Function	Mounting Style	Actuator	Travel	Contact Material	Electrical Life
OS102011MS2QN1	SPDT, On-On, Non-shorting	Vertical	H: 4 mm	2 mm	Copper alloy, silver plated	10,000 cycles
OS202011MS2QS1	DPDT, On-On, Shorting	Vertical	H: 4 mm	2 mm	Copper alloy, silver plated	10,000 cycles
OS103011MS8QP1	SP3T, On-On-On, Non-shorting	Vertical	H: 4 mm	2 mm	Copper alloy, silver plated	10,000 cycles
OS202011MA0QN1	DPDT, On-On, Non-shorting	Right angle	L: 4 mm	2 mm	Copper alloy, silver plated	10,000 cycles

SS 系列
微型滑动开关



特点

- 各种电路设计，SPDT，4P3T，垂直，直角
- 紧凑型微型滑动开关
- 短路或非短路
- 可定制设计

典型应用

- 消费类电子产品
- 电脑外设
- 电信
- 视听设备
- 医疗

Part Number	Function	Contact Rating	Actuator	Travel	Termination	Electrical Life
SS-12D07-VG 4 NS GA PA	SPDT, Non-shorting	0.3A @ 30 V DC	4 mm	2 mm	PC Thru-hole	10,000 cycles
SS-12D1505-G 2	SPDT, Non-shorting	0.3A @ 6 V DC	2 mm	2 mm	PC Thru-hole	10,000 cycles
SS-14D08-VG 5 PA	1P4T	0.3A @ 30 V DC	5 mm	2 mm	PC Thru-hole	10,000 cycles
SS-22D0205-G 2	DPDT, Non-shorting	0.3A @ 6 V DC	2 mm	2 mm	PC Thru-hole	10,000 cycles
SS-22D07-G 2 NS PA	DPDT, Non-shorting	0.3A @ 30 V DC	4 mm	2 mm	PC Thru-hole	10,000 cycles

SK 系列
微型滑动开关



特点

- 各种电路设计，SPDT，4P3T，垂直，转角
- 紧凑型微型滑动开关
- 短路或非短路
- 可定制设计

典型应用

- 消费类电子产品
- 电脑外设
- 电信
- 视听设备
- 医疗

Part Number	Function	Contact Rating	Actuator	Travel	Termination	Electrical Life
SK-12D04-VG 3 NS	SPDT, Non-shorting	0.3A @ 30 V DC	3 mm	2 mm	PC Thru-hole	10,000 cycles
SK-12D07-G 5 NS PA	SPDT, Non-shorting	0.3A @ 30 V DC	5 mm	2 mm	PC Thru-hole	10,000 cycles
SK-12D07-VG 4 NS PA	SPDT, Non-shorting	0.3A @ 30 V DC	4 mm	2 mm	PC Thru-hole	10,000 cycles
SK-13D21-G 2 RT	1P3T, Non-shorting	0.3A @ 4 V DC	2 mm	2 mm	SMT	10,000 cycles
SK-14D01-G6	1P4T	0.3A @ 30 V DC	6 mm	2 mm	PC Thru-hole	10,000 cycles

TF 系列
微型微动开关



特点

- 操纵力范围大
- 从低电平*到 21 AMPS @ 277 V AC
- 各种起动器样式可选

典型应用

- 电机控制
- 恒温
- 便携式工具

Part Number	Function	Operating Force	Electrical Rating	Actuator	Termination
TFCJL3SP004AC	SPDT Momentary	5.29 oz./150 grams	20 A, 250 V AC; 1 HP, 125 V AC; 2 HP 250 V AC	Pin plunger	.250" quick connect
TFCDK6ST2640C	SPDT Momentary	.88 oz./25 grams	11 A, 277 V AC; 1/3 HP, 125, 250 V AC; 0.5 A, 125 V DC; 0.25 A, 250 V DC	2.57" lever, low force	.187" quick connect

LC 系列
超小型精密微动开关



特点

- 紧凑的设计
- 使用寿命长，电容量大
- 快接式，带线或适用于 PCB 安装
- 各种起动器样式

典型应用

- 机动设备
- 水泵
- 恒温控制

Part Number	Function	Operating Force	Electrical Rating	Actuator	Termination
LCGHF5A10RCE	SPDT	6 oz./170 grams	1 A, 125, V AC, 30 V DC	.28" lever roller, high force	Right formed PC thru-hole
LCGGL9P00EC	SPDT	5 oz./142 grams	5 A, 1/3 HP, 125, 250 V AC	Pin plunger	Solder lug

A 系列
通用微动开关



特点

- 低成本 – 高性能
- 电气寿命长
- 密封型起动器可选

典型应用

- 外壳设备
- 车库门遥控开关
- 自动售货机

Part Number	Function	Operating Force	Electrical Rating	Actuator	Termination
ASKHC2T04AC	SPDT	20 oz./567 grams	15 A, 125, 250 V AC; 3/4 HP, 125 V AC; 1 1/2 HP, 250 V AC	Lever	.250" quick connect
ADPDC2T04AC	DPDT	30 oz./850 grams	15 A, 125, 250 V AC; 3/4 HP, 125 V AC; 1 1/2 HP, 250 V AC	Lever	.250" quick connect
ASKHC2J04AC	SPDT	20 oz./567 grams	15 A, 125, 250 V AC; 3/4 HP, 125 V AC; 1 1/2 HP, 250 V AC	High overtravel plunger	.250" quick connect

MS 系列
超小型微动开关



特点

- 联锁及活动检测
- 不同的驱动杠杆可选
- 多种操作力可选

典型应用

- 工业
- 消费类电子产品
- 家电

Part Number	Function	Operating Force	Electrical Rating	Actuator	Termination
MS-118305-G	SP Momentary	25 gf	0.1 A, 30 V DC	Lever ST 12.5 mm	PC Thru-hole
MS-118405-H	SP Momentary	25 gf	0.1 A, 30 V DC	Lever SR R1.3	Solder lug
MS-105A01 (H)	SP Momentary	230 gf	5 A 125 V AC	Pin plunger	Solder lug

ZMA 系列
超小型微动开关



特点

- 可靠的快速起动机制
- 电气寿命长
- 紧凑的尺寸 – 空间受限应用的理想选择
- 各种 PCB 端子和起动器可选
- 电气寿命为 300,000 次 @ 0.1 A / 10,000 次

典型应用

- PCB 检测开关
- 通讯设备
- 测试设备
- 安全 / 警报系统
- 消费类电子产品

Part Number	Function	Electrical Rating	Operating Force	Actuator	Mounting Style / Termination
ZMA03A150S07EC	SPDT, Momentary	3 A @ 125 V AC 24 V DC	150 grams	Simulated roller 0.75 mm	Solder
ZMA00A150L04PC	SPDT, Momentary	0.1 A @ 125 V AC 60 V DC	150 grams	Lever 4.55 mm	PC thru-hole
ZMA03A150A03PC	SPDT, Momentary	3 A @ 125 V AC 24 V DC	150 grams	Roller 1.87 mm	PC thru-hole

LCS 系列
超小型密封微动开关



特点

- 紧凑的设计
- 使用寿命长，电容量大
- 快速连接，焊接端子，PC 端子，带线可选
- 各种起动器样式可选
- IP67
- 电气寿命 10,000 次

典型应用

- 机动设备
- 水泵
- 恒温控制
- 电脑
- 空调

Part Number	Function	Operating Force	Actuator	Mounting Style / Termination	Contact Rating
LCS051P00SDC	SPDT	150 grams	Pin plunger	Solder	5 AMP, 125/250 V AC
LCS011T05QDC	SPDT	150 grams	Short lever, 17.4 mm	0.110 Quick Connect	0.1 AMP, 125/250 V AC
LCS051P00PDC	SPDT	150 grams	Pin plunger	PC thru Hole	5 AMP, 125/250 V AC

DS 系列
联锁按动开关



特点

- 卡入式安装
- 可靠的快速起动机制
- 闭锁或瞬时
- 无卤材料

典型应用

- 联锁开关
- 检测开关
- 电路中断

Part Number	Function	Contact Rating	Actuator	Terminals
DS1D6AQ1	SPDT	10 (4)A @125/250 V AC 50/60 Hz 50,000 cycles 10A G.P. @ 125/250 V AC 1/3HP @ 125/250 V AC 50/60 Hz 10,000 cycles	Momentary, short button	4.8 x 0.5 mm
DS2D6BQ1	DPDT	10 (4)A @125/250 V AC 50/60 Hz 50,000 cycles 10A G.P. @ 125/250 V AC 1/3HP @ 125/250 V AC 50/60 Hz 10,000 cycles	Momentary, long button	4.8 x 0.5 mm
DS2D6CQ1	DPDT	10 (4)A @125/250 V AC 50/60 Hz 50,000 cycles 10A G.P. @ 125/250 V AC 1/3HP @ 125/250 V AC 50/60 Hz 10,000 cycles	Momentary, pulled out button	4.8 x 0.5 mm

Y 系列
4, 5 & 6 钥匙开关



特点

- 防静电开关 — 防止超过 20 KV DC 静电
- 瞬时型号可选
- 电线和线束可选
- 额定值 4 AMPS @ 125 V AC 或 28 V DC; 2 AMPS @ 250 V AC (UL / CSA)
- 满负载下实现 10,000 次断开周期的电气寿命

典型应用

- 销售点终端
- 收银机
- 电脑

Part Number	Function	Keying	Lock Type	Termination
Y201132C203NQ	DP, 90°, keypull pos. 1	Two nickel plated brass keys (4 & 5 tumbler) or two die cast zinc alloy keys with chrome plating (6 tumbler)	4 Tumbler lock with detent	Solder lug with hole
Y1011U2C203NQ	SP, 90°, keypull pos. 1 & 2	Two nickel plated brass keys (4 & 5 tumbler) or two die cast zinc alloy keys with chrome plating (6 tumbler)	4 Tumbler lock with detent	Solder lug with hole
Y101132C203NQ	SP, 90°, keypull pos. 1	Two nickel plated brass keys (4 & 5 tumbler) or two die cast zinc alloy keys with chrome plating (6 tumbler)	4 Tumbler lock with detent	Solder lug with hole

P 系列
4 卡入式钥匙开关



特点

- 卡入式安装
- 多极和多位可选
- 扎实的制动
- 额定值　镀银版本　4 AMPS @ 125 V AC 或 28 V DC; 2 AMPS @ 250 AC V AC (UL)
  镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值) 或
  4 AMPS @ 125 V AC 或 28 V DC; 2 AMPS @ 250 V AC (UL)
- 满负载下实现 10,000 次断开周期的电气寿命

典型应用

- 电脑
- 商务机
- 通讯设备

Part Number	Function	Keying	Lock Type	Termination	Contact Material
P10113TCM03Q22	SP, 90° Index, keypull pos. 1	One nickel plated brass key with insert molded plastic square head and one nickel plated brass key	4 Tumbler lock with detent	Solder lug	Silver
P101132CM03Q2	SP, 90° Index, keypull pos. 1	Two nickel plated brass keys	4 Tumbler lock with detent	Solder lug	Silver
P201132CM03G2	DP, 90° Index, keypull pos. 1	Two nickel plated brass keys	4 Tumbler lock with detent	Solder lug	Gold over silver

注：本目录节录部分 C&K 的部件号。C&K 提供超过 55,000 个部件号。
有关产品和配置的完整列表，请参阅 C&K 全线目录。
尺寸和规格可能会更改。

KXT3 系列
超薄型 SMT 顶部起动轻触开关



特点

- 最小占位面积 3.0 x 2.0 mm
- 厚 0.6 mm
- 高周期数

典型应用

- 可穿戴电子产品
- 入耳式耳机，耳塞式耳机
- 便携式电子产品
- 助听器

Part Number	Operating Force	Contact Material	Operating Life	Travel
KXT 311 LHS	100 ± 50 gf	Silver	300,000 cycles	0.13 ± 0.05 mm
KXT 321 LHS	160 ± 50 gf	Silver	500,000 cycles	0.13 ± 0.05 mm
KXT 331 LHS	240 ± 70 gf	Silver	500,000 cycles	0.13 ± 0.05 mm

KMT0 系列
纳米微型 SMT 顶部起动



特点

- 占位面积 3.0 x 2.06 mm
- IP68
- 超低电流功能

典型应用

- 手机
- 助听器
- MP3 配件
- 蓝牙耳机

Part Number	Operating Force	Contact Material	Operating Life	Travel
KMT011NGJ LHS	1.0 ± 0.25 N	Silver	300,000 cycles	0.15 ± 0.1 mm
KMT031NGJ LHS	3.4 ± 0.25 N	Silver	300,000 cycles	0.15 ± 0.1 mm
KMT071NGJ LHS	2.3 ± 0.25 N	Silver	300,000 cycles	0.15 ± 0.1 mm

KMR 系列
微型 SMT 顶部起动



特点

- IP40 或 IP67
- 可选接地引脚
- 超低电流性能
- 高度 1.9 毫米和 2.5 毫米

典型应用

- 汽车
- 消费类电子
- 工业电子
- 医疗设备

Part Number	Operating Force	Contact Material	Operating Life	Travel
KMR211G LFS	1.2 ± 0.30 N	Silver	200,000 cycles	0.20 ± 0.1 mm
KMR221G LFS	2.0 ± 0.50 N	Silver	200,000 cycles	0.25 ± 0.1 mm
KMR231G LFS	3.0 ± 0.75 N	Silver	150,000 cycles	0.25 ± 0.1 mm

KMS 系列
微型 SMT 侧面起动



特点

- 小尺寸
- 出色的触感
- 实现稳定性的定位栓
- IP40 密封

典型应用

- 医用手持显示器
- 消费类电子产品
- 电信网络

Part Number	Operating Force	Contact Material	Operating Life	Travel
KMS221G LFS	2.0 ± 0.5 N	Silver	100,000 cycles	0.25 ± 0.15 mm
KMS231G LFS	3.0 ± 0.6 N	Silver	100,000 cycles	0.30 ± 0.15 mm

KSR 系列
用于 SMT 的超小型轻触开关



特点

- 4 种起动力
- N.O. 和 N.C.
- 橡胶起动器
- IP50 密封

典型应用

- 汽车
- 医疗设备
- 工业电子
- 智能仪表

Part Number	Operating Force	Contact Material	Switch Function	Operating Life	Travel
KSR221G LFS	2.2 N	Silver	Normally open	100,000 cycles	0.30 ± 0.15 mm
KSR231G LFS	3.0 N	Silver	Normally open	100,000 cycles	0.35 ± 0.15 mm
KSR251G LFS	4.5 N	Silver	Normally open	100,000 cycles	0.50 ± 0.15 mm
KSR223GNC LFG	2.0 N	Gold	Normally closed	30,000 cycles	0.30 ± 0.15 mm
KSR221G NC LFS	2.25 N	Silver	Normally closed	30,000 cycles	0.30 ± 0.15 mm

KSS 系列
超小型 SMT 侧面起动



特点

- 小外形
- 3 种起动力
- IP40 密封

典型应用

- 手机
- 工业电子
- 健康诊断电子

Part Number	Operating Force	Contact Material	Switch Function	Operating Life	Travel
KSS221G LFS	2.0 ± 0.5 N	Silver	Normally open	100,000 cycles	0.30 ± 0.15 mm
KSS231G LFS	2.5 ± 0.5 N	Silver	Normally open	100,000 cycles	0.30 ± 0.10 mm
KSS241G LFS	4.0 ± 1 N	Silver	Normally open	100,000 cycles	0.30 ± 0.15 mm

KSE 系列
高性能密封轻触开关



特点

- 小外形
- IP67
- 高度 3.1 毫米和 4.3 毫米

典型应用

- 智能仪表
- 家用电器 / 消费电子产品
- 工业电子
- 电信

Part Number	Operating Force	Operating Life	Travel
KSEM31J LFS	1.5 ± 0.5 N	300,000 cycles	0.3 + 0.1/-0.2 mm
KSEK43G LFS	2.25 ± 0.75 N	300,000 cycles	0.30 ± 0.2 mm

KSC4V2 系列
侧面起动密封轻触开关



特点

- 全 SMD 侧面起动
- 触感适应性
- 引脚粘贴在端子上
- IP67

典型应用

- 汽车
- 工业
- 电信网络
- 网络基础设施和 IT

Part Number	Operating Force	Contact Material	Operating Life	Travel
KSC441V2SPD LFS	3.5 ± 1.0 N	Silver	300,000 cycles	0.7 ± 0.2 mm

可根据要求提供其他选项，如：高度、力度、行程及使用寿命

KSC 系列
用于 SMT 的密封轻触开关



特点

- 良好的触觉
- 包括 6 种起动力
- IP67
- 为每个型号提供了鸥翼式选项

典型应用

- 汽车
- 手机
- 工业电子
- 网络基础设施和 IT

Part Number	Operating Force (Min/Max)	Actuator Height	Operating Life	Travel
KSC241J LFS	3.5 ± 0.9 N	3.5 ± 0.2 mm	300,000 cycles	0.5 ± 0.2 mm
KSC321J LFS	1.6 N	3.47 ± 0.2 mm	300,000 cycles	0.2 +0.3 mm
KSC441J 70SH LFS	4 ± 1 N	5.2 ± 0.2 mm	300,000 cycles	0.75 ± 0.25 mm
KSC441J ST2 LFS	3.4 ± 1 N	5.2 ± 0.2 mm	300,000 cycles	0.35 ± 0.20 mm
KSC641J LFS	3.4 ± 1 N	7.7 ± 0.2 mm	300,000 cycles	0.4 ± 0.2 mm
KSC941J LFS	3.4 ± 0.85 N	7.7 ± 0.2 mm	300.000 cycles	0.4 ± 0.2 mm

可根据要求提供其他选项，如：高度、力度、行程及使用寿命
显示的产品配置不限于上述示例，请参考全线产品目录、网站或联系 C&K 销售代表

KSC8 系列
SMD 密封轻触开关，可调高度



特点

- SMD 开关
- 极佳的触感，基于硬起动器并采用硅膜网络的过载电阻
- IP67

典型应用

- 汽车
- 手机
- 工业电子
- 网络基础设施和 IT

Part Number	Operating Force	Contact Material	Operating Life	Travel
KSC821J OL LFS	1.7 ± 0.5 N	Silver	300,000 cycles	0.4 ± 0.2 mm
KSC831J OL LFS	2.55 ± 0.65 N	Silver	300,000 cycles	0.4 ± 0.2 mm
KSC841J OL LFS	3.4 ± 0.85 N	Silver	300,000 cycles	0.4 ± 0.2 mm

KSA / KSJ 系列
高性能密封轻触开关



特点

- 设计用于自动或手动插入
- 拱形端子确保自留
- 盖帽选择范围大

典型应用

- 汽车
- 工业
- 电信网络

Part Number	Operating Force	Contact Material	Operating Life	Travel
KSA0M411 LFTR	3 ± 0.75 N	Silver	100,000 cycles	0.6 ± 0.2 mm
KSA0M211 LFTR	1.4 ± 0.4 N	Silver	100,000 cycles	0.5 ± 0.2 mm
KSA0M311 LFTR	1.4 ± 0.4 N	Silver	100,000 cycles	0.5 ± 0.2 mm
KSA0M332 LFTR	1.3 ± 0.3 N	Gold	100,000 cycles	0.5 ± 0.15 mm
KSJ0M41180SH LFTR	3.3 ± 0.8 N	Silver	100,000 cycles	0.55 ± 0.25 mm

K8 系列
以坚固耐用的 LED 安装工艺安装的带灯 SMT 轻触开关



特点

- 符合汽车应用标准的 LED
- 各种 LED 选项
- 无光摄
- 声音和触感
- 各种气候类别

典型应用

- 汽车
- 网络设备
- 电信
- 医疗设备
- 工业控制

Part Number	Operating Force	Operating Life	Travel
K8xx41G LFS*	4 N	300,000 cycles	0.45 ± 0.15 mm

K5AT 系列
带灯 SMT 轻触开关



特点

- 高亮度 LED
- 减少了板空间用量

典型应用

- 网络基础设施，服务器
- 医疗

Part Number	Operating Force	Contact Material	LED	Travel	Termination
K5AT WH 43 G	4 N	Gold	White	0.5 mm	SMT
K5AT GA 43 G	4 N	Gold	Green	0.5 mm	SMT

ITS 系列
带灯轻触开关



特点

- 垂直和直角
- 通孔和 SMT 型号
- 多种盖帽和图例
- 几种 LED 颜色和双色选项

典型应用

- 消费类电子产品
- 服务器 / 存储设备
- 医疗设备
- 测试 / 测量 / 仪器仪表

Part Number	LED Color	Mounting Style / Termination	Operating Life	Operating Force
ITS10FV1ST	Red	Vertical thru-hole	50,000 cycles	160 gf ± 50 gf
ITS13FV2SR	Red / Green	Vertical SMT Gullwing	50,000 cycles	160 gf ± 50 gf
ITS50FV3SR	White	Vertical SMT Gullwing with J bend LED	50,000 cycles	160 gf ± 50 gf
ITS23FR1ST	Yellow / Green	Right angle thru-hole	50,000 cycles	160 gf ± 50 gf
ITS40FR2ST	Blue	Right angle thru-hole 2.5 mm leads	50,000 cycles	160 gf ± 50 gf

K5V 系列
带灯轻触开关



特点

- 高亮度 LED
- 减少了板空间用量
- 出色的人体工程学

典型应用

- 网络基础设施，服务器
- 汽车
- 医疗

Part Number	Operating Force	Contact Material	LED	Travel	Termination
K5V 1 BU 43 T	4 N	Gold	Blue	1.2 mm	PC Thru-hole
K5V 1 BA 43 T P3	4 N	Gold	Blue-Amber	1.2 mm	PC Thru-hole
K5V 1 YG 43 T	4 N	Gold	Yellow-Green	1.2 mm	PC Thru-hole
K5V 5 WH 43 G	4 N	Gold	White	1.2 mm	SMT
K5V 4 BU 43 G P3	4 N	Gold	Blue	1.2 mm	SMT

KT 系列
SMT 轻触开关



特点

- 橡胶或硬塑料起动器
- 压配或卡扣式盖帽
- 采用板片易于取放

典型应用

- 电信
- 电脑产品
- 仪器仪表

Part Number	Actuator	Orientation	Mounting Bracket	Contact Material	Termination
KT11 B2 SAM 34 LFS	Soft 2.24 mm	Side actuated	-	Silver	SMT
KT11 P3 SA1M 34 LFS	Hard 1.12 mm	Side actuated	Front solder pad	Silver	SMT
KT11 P4 SA2M 35 LFG	Hard 3.96 mm	Side actuated	Solder pad and pick & place	Gold	SMT
KT11 B0 SA3M 34 LFS	Soft Flush	Side actuated	Pick and place Tab	Silver	SMT
KT11 P3 SM 34 LFS	Hard 1.12 mm	Top actuated	Gullwing	Silver	SMT

PTS125 系列
微型 SMT 顶部起动



特点

- 12 x 12 毫米
- 四个不同的高度
- THT 和 SMT 端接
- 卡扣式起动器选项

典型应用

- 电脑产品
- 工业
- 消费产品
- 仪器仪表

Part Number	Total Height	Operating Force	Operating Life	Termination
PTS125SJM73 SMTR-2 LFS	7.3 mm	180 gf	200,000 cycles	SMT
PTS125SK43-2 LFS	4.3 mm	250 gf	200,000 cycles	THT

PTS525 系列
微型 SMT 顶部起动



特点

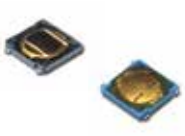
- 寿命长
- 5.25 x 5.25 mm 的紧凑型封装可以节省 PCB 空间

典型应用

- 消费类电子 / 手持设备
- 仪器仪表
- 电脑产品

Part Number	Operating Force	Total Height	Operating Life	Travel
PTS525SM15SMTR2LFS	160 gf	1.5 mm	1,000,000 cycles	0.25 ± 0.2 mm

PTS530 系列
超薄型 SMT 顶部起动



特点
- 4.5 x 4.5 mm 占位面积
- 厚度 0.55 mm
- 高周期数
- 标志线识别

典型应用
- MP3 配件
- 蓝牙耳机
- 遥控器
- 车库门遥控开关

Part Number	Termination Style	Operating Force	Operating Life	Travel
PTS530GM055SMTRLFS	Gullwing	160 ± 30 gf	1,000,000 cycles	0.2 mm - 0.1 /+ 0.15 mm
PTS530GK055SMTRLFS	Gullwing	260 ± 30 gf	200,000 cycles	0.2 mm - 0.1 /+ 0.15 mm

PTS540 系列
微型 SMT 顶部起动



特点
- 3.7 x 3.7 mm 占位面积
- 高周期数

典型应用
- MP3 配件
- 蓝牙耳机
- 遥控器

Part Number	Total Height	Operating Force	Operating Life	Travel
PTS540JM035SMTRLFS	0.35 mm	160 ± 50 gf	500,000 cycles	0.15 +/- 0.1 mm
PTS540JK035SMTRLFS	0.35 mm	230 ± 50 gf	300,000 cycles	0.15 +/- 0.1 mm

PTS641 系列
微型 SMT 顶部起动



特点
- 6.3 x 6.3 mm 占位面积
- 多种高度
- 接地引脚选项

典型应用
- 测量
- 白色家电
- 家庭和园艺设备

Part Number	Total Height	Operating Force	Operating Life	Ground Pin
PTS641SM31SMTR2LFS	3.1 mm	160 gf	100,000 cycles	No
PTS641TK25SMTR2LFS	2.5 mm	250 gf	100,000 cycles	No

PTS645 系列
微型 SMT 顶部 / 侧面起动



特点
- 紧凑尺寸 6 x 6 毫米
- 各种起动器长度
- 起动力选择

典型应用
- 电脑产品
- 工业
- 消费类电子产品
- 仪器仪表

Part Number	Total Height	Operating Force	Operating Life	Termination
PTS645SL43SMTR92 LFS	4.3 mm	130 gf	100,000 cycles	SMT
PTS645VK31-2 LFS	3.15 mm	260 gf	100,000 cycles	Vertical

PTS810 系列
微型 SMT 顶部起动



特点

- 4.2 x 3.2 mm 占位面积
- 2.5 mm 厚度
- 高使用周期数
- 彩色编码起动器

典型应用

- 控制板
- 游牧设备
- 遥控
- 无钥匙进入系统

Part Number	Actuator Color	Operating Force	Operating Life	Travel
PTS810SJM250SMTRLFS	Gray	160 ± 50 gf	150,000 cycles	0.15 mm ± 0.1 mm
PTS810SJK250SMTRLFS	White	260 ± 70 gf	50,000 cycles	0.15 mm ± 0.1 mm

PTS820 系列
微型 SMT 顶部起动



特点

- 3.9 x 2.9 毫米的占位面积
- 三种不同的高度
- 高周期数
- 减少占位面积

典型应用

- 控制面板
- 游牧设备
- 遥控器
- 无钥匙进入系统

Part Number	Total Height	Pegs	Operating Force	Operating Life
PTS820J25MSMTRLFS	2.5 mm	No	160 ± 50 gf	200,000 cycles
PTS820J25KSMTRLFS	2.5 mm	No	250 ± 50 gf	100,000 cycles

PTS840 系列
微型 SMT 侧面起动



特点

- 3.5 x 3.55 mm 占位面积
- 前端 PIP 导线选项，具有很强的抗剪切能力
- ESD 引脚选项

典型应用

- 游牧设备
- 遥控器
- 个人健康诊断
- 消费类电子产品

Part Number	Operating Force	Operating Life	Ground	Termination Style	Pegs
PTS840PMSMTR LFS	160 gf -40/+70 gf	100,000 cycles	No	P	No
PTS840PKSMTR LFS	220 gf -70/+80 gf	100,000 cycles	No	P	No
PTS840GMPSMTR LFS	160 gf -40/+70 gf	100,000 cycles	No	G	Yes
PTS840GKPSMTR LFS	220 gf -70/+80 gf	100,000 cycles	No	G	Yes
PTS840ESDPMSMTR LFS	160 gf -40/+70 gf	100,000 cycles	Yes	P	No

7000 系列
微型钮子开关



特点

- 多极和多位可选
- 各种起动器和端子可选
- 端子密封可兼容底部清洗
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　5 AMPS @ 120 V AC 或 28 V DC; 2 AMPS @ 250 V AC AC

典型应用

- 电信
- 仪表
- 医疗设备

Part Number	Function	Actuator	Bushing	Mounting Style / Termination	Contact Material	Electrical Life
7101SYZQE	SPDT On-None-On	Round, .420" high	.350" high, threaded keyway	Solder lug	Silver	100,000 cycles
7201SYZQE	DPDT On-None-On	Round, .420" high	.350" high, threaded keyway	Solder lug	Silver	100,000 cycles
7103SYZQE	SPDT On-Off-On	Round, .420" high	.350" high, threaded keyway	Solder lug	Silver	40,000 cycles
7101SYCQE	SPDT On-None-On	Round, .420" high	.350" high, threaded keyway	PC thru-hole	Silver	100,000 cycles
7101P3YZQE	SPDT On-None-On	Flatted, anti-rotation, .450" high	.350" high, threaded keyway	Solder lug	Silver	100,000 cycles

E 系列
密封微型钮子开关



特点

- 密封处理使其适合焊接与水洗
- UL 94V–0 尼龙外壳和衬套
- 具有 ESD 保护
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  银镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值) 或
  7.5 AMPS @ 125 V AC 或 28 V DC; 3 AMPS @ 250 V AC DC
  镀银版本　7.5 AMPS @ 125 V AC 或 28 V DC; 3 AMPS @ 250 V AC

典型应用

- 电信
- 仪器信表
- 医疗设备

Part Number	Function	Actuator	Bushing	Mounting Style / Termination	Contact Material	Electrical Life
E101MD1ABE	SPDT, On-None-On	.300" high	.250" high, unthreaded	Right angle, PC thru-hole	Gold	40,000 cycles
E105SD1CBE	SPDT, Mom.-Off-Mom.	.500" high	.250" high, unthreaded	PC thru-hole	Gold	40,000 cycles
E101MD1AV2GE	SPDT, On-None-On	.300" high	.250" high, unthreaded	Vertical right angle, PC thru-hole	Gold over silver	40,000 cycles
E101MD1AQE	SPDT, On-None-On	.300" high	.250" high, unthreaded	Right angle, PC thru-hole	Silver	40,000 cycles
E103MD1ABE	SPDT, On-Off-On	.300" high	.250" high, unthreaded	Right angle, PC thru-hole	Gold	40,000 cycles

T 系列
超小型钮子开关



特点

- 小尺寸 – 小占位面积
- 单极和双极型号可选
- PCB 和面板安装可选
- 额定值　镀金版本　0.4 VA 最大@ 20 V AC 或 DC 最大
  镀银版本　选项高达 3 AMPS @ 120 V AC 或 28 V DC

典型应用

- 电信
- 仪器信表
- 医疗

Part Number	Function	Actuator	Bushing	Mounting Style / Termination	Contact Material	Electrical Life
T102SHZQE	SPDT Off-None-On	.370" high	.220" high, threaded, flat	Solder lug	Silver	30,000 cycles
T101MH9ABE	SPDT On-None-On	.210" high	.220" high, unthreaded, flat	Right angle, PC thru-hole	Gold	60,000 cycles
T105LH9ABE	SPDT Mom.-Off-Mom.	.290" high	.220" high, unthreaded, flat	Right angle, PC thru-hole	Gold	30,000 cycles
T101MH9AVBE	SPDT On-None-On	.210" high	.220" high, unthreaded, flat	Vertical right angle, PC thru-hole	Gold	60,000 cycles
T211MH9V3BE	DPDT On-On-On.	.210" high	.220" high, unthreaded, flat	Vertical mount V-bracket	Gold	30,000 cycles

ET 系列
密封超小型钮子开关



特点

- 密封处理使其适合焊接与水洗
- 具有 ESD 保护
- 通孔型和表面贴装型可选
- 小尺寸和小占位面积节省了板空间
- 额定值　镀金版本　0.4 VA (最大值) @ 20 V AC 或 DC (最大值)
  镀银版本　3 AMPS @ 120 V AC 或 28 V DC

典型应用

- 电信
- 仪器仪表
- 医疗设备

Part Number	Function	Actuator	Bushing	Mounting Style / Termination	Contact Material	Electrical Life
ET01MD1SAPE	SPDT, On-None-On	.240" high	.177" High, Unthreaded	Right angle, Surface mount	Gold, matte tin	60,000 cycles
ET01MD1CBE	SPDT, On-None-On	.240" high	.177" High, Unthreaded	PC thru-hole	Gold	60,000 cycles
ET01MD1ABE	SPDT, On-None-On	.240" high	.177" High, Unthreaded	Right angle, PC thru-hole	Gold	60,000 cycles
ET08LD1CBE	SPDT, On-None-Mom.	.320" high	.177" High, Unthreaded	PC thru-hole	Gold	30,000 cycles
ET21MD1AQE	DPDT, On-None-On	.240" high	.177" High, Unthreaded	Right angle, PC thru-hole	Silver	60,000 cycles

GT 系列
密封超微型钮子开关



特点

- 密封处理使其适合焊接与水洗
- 超小尺寸，占位面积最小
- 通孔型和表面贴装型
- 高温材料 (UL 94V–0)
- 接点材料镍镀金

典型应用

- 电信
- 小型仪器

Part Number	Function	Mounting Style / Termination	Actuation	Contact Rating	Electrical Life
GT11MSABETR	SPDT, On-None-On	Right angle, Surface mount	Horizontal	0.4 VA max. @ 20 V AC or DC max.	40,000 cycles
GT11MCBE	SPDT, On-None-On	PC thru-hole	-	0.4 VA max. @ 20 V AC or DC max.	40,000 cycles
GT23MAVBE	DPDT, On-Off-On	Right angle, PC thru-hole	Vertical	0.4 VA max. @ 20 V AC or DC max.	40,000 cycles
GT11MSCBETR	SPDT, On-None-On	Surface mount	Horizontal	0.4 VA max. @ 20 V AC or DC max.	40,000 cycles

注：本目录节录部分 C&K 的部件号。C&K 提供超过 55,000 个部件号。
有关产品和配置的完整列表，请参阅 C&K 全线目录。
尺寸和规格可能会更改。

CCM01 系列
全尺寸连接器



特点

- 使用寿命长达 50 万次
- 最高 40N 卡插入力
- EMV
- PCI 待用
- 卡检测密封开关

典型应用

- 交易
- 鉴定
- POS

Part Number	Number of Contacts	Termination	Operating Life	Card Insertion Force
CCM01-2329 LFT	8	SMT	500,000 cycles	10N

CCM02 系列
全尺寸连接器



特点

- 使用寿命长达 50 万次
- 高达 40N 卡插入力
- EMV
- PCI 和 PCI 待用
- 卡检测密封开关

典型应用

- 交易
- 鉴定
- POS

Part Number	Number of Contacts	Termination	Contact Type	PCB version
CCM02-2504 LFT	8	SMT	landing	4 clips
CCM02-F844 LFT*	8	SMT	friction	4 metal pegs

* 包括 PCI 功能 I/O 保护和安全盖

CCM03 系列
SIM / SAM 卡连接器



特点

- SIM 卡 / SAM 卡接入
- 铰链和固定盖
- 兼容拣选和无铅焊接
- 6 或 8 个接点

典型应用

- M2M
- POS
- 汽车

Part Number	Number of Contacts	Termination	Contact Plating	Cover	Card Presence Switch	Operating Life
CCM03-3003 LFT	8	SMT	inlay	hinged	without	10,000 cycles
CCM03-3009 LFT	6	SMT	gold	hinged	without	10,000 cycles
CCM03-3013 LFT	6	SMT	gold	hinged	with	10,000 cycles
CCM03-3754 LFT	6	SMT	inlay	fixed	with	10,000 cycles

面向太空级应用的高可靠性矩形连接器

近三十年来，C&K 为航空太空市场提供了广泛的高可靠性连接器，包括欧洲航天局准用的 micro–D，单列微型连接器和 D–sub 连接器。目前在 18 个 ESA 规范中引用，C&K 为各种太空应用，从最小尺寸的研究和测量到最大的电信卫星，提供 3000 多个 ESA QPL 认证的矩形连接器。**请登陆 www.ckswitches.com 参考太空和高可靠性全线产品目录，图纸和产品规格。**



D–Sub 连接器

C&K 的全系列 D*M 和 D*MA 系列 D–sub 连接器用于卫星和发射器，并通过严格的脱气和剩磁试验。D–sub 连接器提供各种触点布局 (包括带有同轴电缆，电源或压接触点) 和外壳尺寸，可采用不可移除和可移除的触点，以及滤波，引脚及插座和接口配置。

微型 D 连接器

C&K 的全系列 MDM 系列微型连接器经常用于连接卫星系统中的各种模块。MDM 连接器采用经过验证的 Micropin™ 触点系统，并提供各种触点布局。迄今为止，C&K 是唯一提供符合 ESA 标准的矩形微型连接器的公司。





单列直插式微型连接器

在卫星中用作 PCB 之间的连接器，C&K 的 MTB1 微带单列式微型连接器也采用高性能的 Micropin™ 触点系统，并满足对脱气和剩磁的严格要求。连接器适用于板对板，板对电缆和电缆到电缆的应用。迄今为止，C&K 是唯一提供符合 ESA 标准的微带单列直插式微型连接器的公司。

带可移除触点的矩形微型连接器

在各种太空设备应用中，C&K 的 MDMA 矩形微型功能具有符合 ESA/ESCC 规格的可移除压接触点，以及高可靠性的 Micropin™ 扭针触点系统。MDMA 连接器保证达到「零缺陷」标准。





Space Splice

单向 Space Splice 高可靠性连接器小巧且简便易用，是手动拼接的替代品，具有高耐辐射性和耐热性、低剩磁和低脱气，按照 ESA/ESCC 规范的要求制造而成，符合卫星、有效载荷和其它恶劣环境应用 – 包括实验室、航空电子、军事和医疗设备 – 的最高质量要求。该系列属于 EPPL2 (ESA/ESCC 欧洲首选零部件列表 (第 2 部分)) 产品，接受最常见的线规 (AWG 20 – AWG 30)，采用可拆卸 D*MA 铆接触点技术，实现了手动和导向工具辅助插入。

部件号列表

部件号	页码
1101M1S3ZQE2	35
1101M2S3AV2QE2	35
1101M2S3CBE2	35
1101M2S3CQE2	35
7101J1ABE2	32
7101J1AQE2	32
7101J1AV2QE2	32
7101P3YZQE	48
7101SYCQE	48
7101SYZQE	48
7103SYZQE	48
7201SYZQE	48
8121J81ZGE22	30
8121SHZGE	30
8125SHCBE	30
8125SHZBE	30
8161SHZQE2	30
8168LHZQE2	30
8168SHZGE2	30
8168SHZQE2	30
8221SHZGE	30
A10305RNCB	34
A11405RNZQ	34
A20605RNCQK	34
ADPDC2T04AC	38
AP2D200TWBE	31
AP2D300SZBE	31
AP4D200TWBE	31
AP4D200TZBE	31
AP4E300TZBE	31
ASKHC2J04AC	38
ASKHC2T04AC	38
AYZ0102AGRLC	36
AYZ0202AGRLC	36
AYZ0203AGRLC	36
BPA01B	25
BPA04B	25
BPA05SB	25
CCM01-2329 LFT	50
CCM02-2504LFT	50
CCM02-F844LFT	50
CCM03-3003 LFT	50
CCM03-3009LFT	50
CCM03-3013LFT	50
CCM03-3754LFT	50
CD10RM0SBR	26
CD16RM0SBR	26
CRD10RM0CB	26
CRD16CM0SBR	26
D101J12S215PQA	32
D501J12S2AHQA	32
D502J12S2AHQA	32
D6C90 F1 LFS	27
D6L90 F1 LFS	27
D6R10 F1 LFS	27
D6R90 F1 LFS	27
DF62J12S215PQA	33
DF62J12S2AHQA	33
DF62J12S2APQA	33
DS1D6AQ1	39
DS2D6BQ1	39
DS2D6CQ1	39
E101J1AQE2	32
E101J3V31QE2	32
E101MD1ABE	48
E101MD1AQE	48
E101MD1AV2GE	48
E103MD1ABE	48
E105SD1CBE	48
E201J1V31QE2	32
EP11SD1ABE	29
EP11SD1AVBE	29
EP11SD1CBE	29
EP11SD1SAPE	29
EP12SD1ABE	29
ET01MD1ABE	49
ET01MD1CBE	49
ET01MD1SAPE	49
ET08LD1CBE	49
ET21MD1AQE	49
FP11SPA1B1TP02	29
FP11SPA1B1TP03	29
FP11SPC1B1TP00	29
FP11SPC1B1TP02	29
FP11SPC1B1TP03	29
GT11MCBE	49
GT11MSABETR	49
GT11MSCBETR	49
GT23MAVBE	49
HDT0001	22
ITS10FV1ST	44
ITS13FV2SR	44
ITS23FR1ST	44
ITS40FR2ST	44
ITS50FV3SR	44
JS202011AQN	36
JS202011SCQN	36
JS203011CQN	36
K12A BK 1 5N	27
K12C 1 5N	27
K12GO BK 1.5 6/12N	27
K12P BK 1 5N	27
K12PL WH 1.5 5N LV302	27
K12SB S 1.5 3.5N C LFTX	27
K12SB S 1.5 9N O LFTX	27
K12SC L 1.5WHO 9N O LFTX	27
K12SC D 1.5 4/8N OO LFTX	27
K5AT GA 43 G	44
K5AT WH 43 G	44
K5V 1 BA 43 T P3	44
K5V 1 BU 43 T	44
K5V 1 YG 43 T	44
K5V 4 BU 43 G P3	44
K5V 5 WH 43 G	44

部件号	页码
K8xx41GLFS	44
KM1202A08BE	23
KM1202A08QE	23
KMR211G LFS	41
KMR221G LFS	41
KMR231G LFS	41
KMS221G LFS	41
KMS231G LFS	41
KMT011NGJ LHS	41
KMT031NGJ LHS	41
KMT071NGJ LHS	41
KSA0M211LFT	43
KSA0M311LFT	43
KSA0M332LFT	43
KSA0M411LFT	43
KSC241JLFS	43
KSC321JLFS	43
KSC441J 70SH LFS	43
KSC441J ST2 LFS	43
KSC441V2SPDLFS	42
KSC4D2J50SH	23
KSC641J LFS	43
KSC821J OL LFS	43
KSC831J OL LFS	43
KSC841J OL LFS	43
KSC941J LFS	43
KSEK43LFS	42
KSEM31JLFS	42
KSJ0M41180SHLFT	43
KSJ0VD180SH LFT	23
KSM1131D LFG	22
KSR221G LFS	42
KSR221G NC LFS	42
KSR223GNC LFG	42
KSR231G LFS	42
KSR251G LFS	42
KSS221G LFS	42
KSS231G LFS	42
KSS241G LFS	42
KSU213WLFG	22
KT11 B0 SA3M 34 LFS	45
KT11 B2 SAM 34 LFS	45
KT11 P3 SA1M 34 LFS	45
KT11 P3 SM 34 LFS	45
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PTS645SL43SMTR92 LFS	46
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V80212MS02Q	35
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有限保修

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C&K Components, Inc. (C&K) warrants its products against defects in manufacturing if the products are used for the purpose for which they were manfactured and sold. C&K will, at its option, repair or replace any of its products with a manafacturing defect. This warranty shall expire one year from the date of shipment. THIS WARRANTTY IS IN LIEU OF ALL WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILIY OR FITTNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY EXCLUDED. SPECIFICATIONS AND PRODUCT LITERATURE REFERRING TO, ATTACFHED TO OR FURNISHED WITH PRODUCTS ARE DESCRIPTIVE ONLY AND SHALL NOT BE TREATED AS WARRANTIES. The purchaser or subsequent owner or user's sole and exclusive right or remedy shall be limited to the furnishing of replacements for products found defective by C&K. No oral wavier or modification of this warranty shall have any effect whatsoever, regardless of by whom such wavier or modification is given.

This warrranty is void if any modification is made on the warranted product, regardless of whether the modification causes or contributes to the alleged defect. All modifications are made at the risk of the party making the modification. Purchaser indemnifies and holds harmless from all claims or causes of action arising from modifications made to products which are not under the control of C&K. If purchaser buys and resells the product, purchaser agrees to inform its customers that C&K makes no express or implied warranties because of the modification. C&K's warranty is also void if product failure results from acts or omissions of persons other than C&K, or from accident, acts of nature, abuse, misuse or misapplication of the product.

Customer Communication

15 Riverdale Ave. Newton, MA 02458.

For product information, inquiries & quotes, order or contract amendment handling customer feedback, customer complaints: Contact Customer Service 617.969.3700, Fax 617.969.6600, Web Adress: www.ck-components.com

Terms and Conditions of Sale with Limitations of Remedy and Liability

1. The warranty provided above, or any warranty duly provided by C&K, shall constitute the sole remedy of purchaser and any subsequent owner or user of the product; and shall be the sole liability of C&K, whether in contract, tort, strict liability, under warranty or otherwise. In no event shall C&K's liability exceed the amount of the purchase price paid to C&K by the purchaser for the allegedly defective product. C&K shall not be liable under any circumstance for special, indirect or circumstsntial damages, including loss of profit or production.

2. Purchaser and any subsequent owner of the product shall have no claim against C&K for any labor, downtime or expenses of any kind arising from any C&K default whatsoever, including delay shipment.

3. No agreements of sale or contract shall exist between C&K and purchaser until accepted by C&K. All such agreements shall be deemed to take place in Massachusetts, regardless of the origin or destination of the product.

4. Notwithstanding any term or condition imposed or set forth by purchaser's documents or purchase order, C&K objects and takes exception to any provision therein which conflicts with or is in addition to C&K's Terms and Conditions of Sale with Limitations of Remedy and Liability. C&K's performance of any purchase order is conditional upon the purchaser accepting all C&K's said terms, conditions and limitations. Failure of the purchaser to object to these Terms and Conditions of Sale with Limitations of Remedy and Liability within seven (7) days shall constitute full and final acceptance thereof by purchaser.

5. Purchaser agrees to notify all subsequent owners and users taking through purchaser of these Terms and Conditions of Sale with Limitations of Remedy and Liability and, failing to do so, shall indemnify and hold C&K harmless from all claims or causes of action by such persons which are applicable to said terms, conditions and limitations.

6. No product shall be returned to C&K without its prior permission. No cancellations or reschedules to open orders are permitted within factory lead time. Orders are to be scheduled for delivery within 12 months from order date.

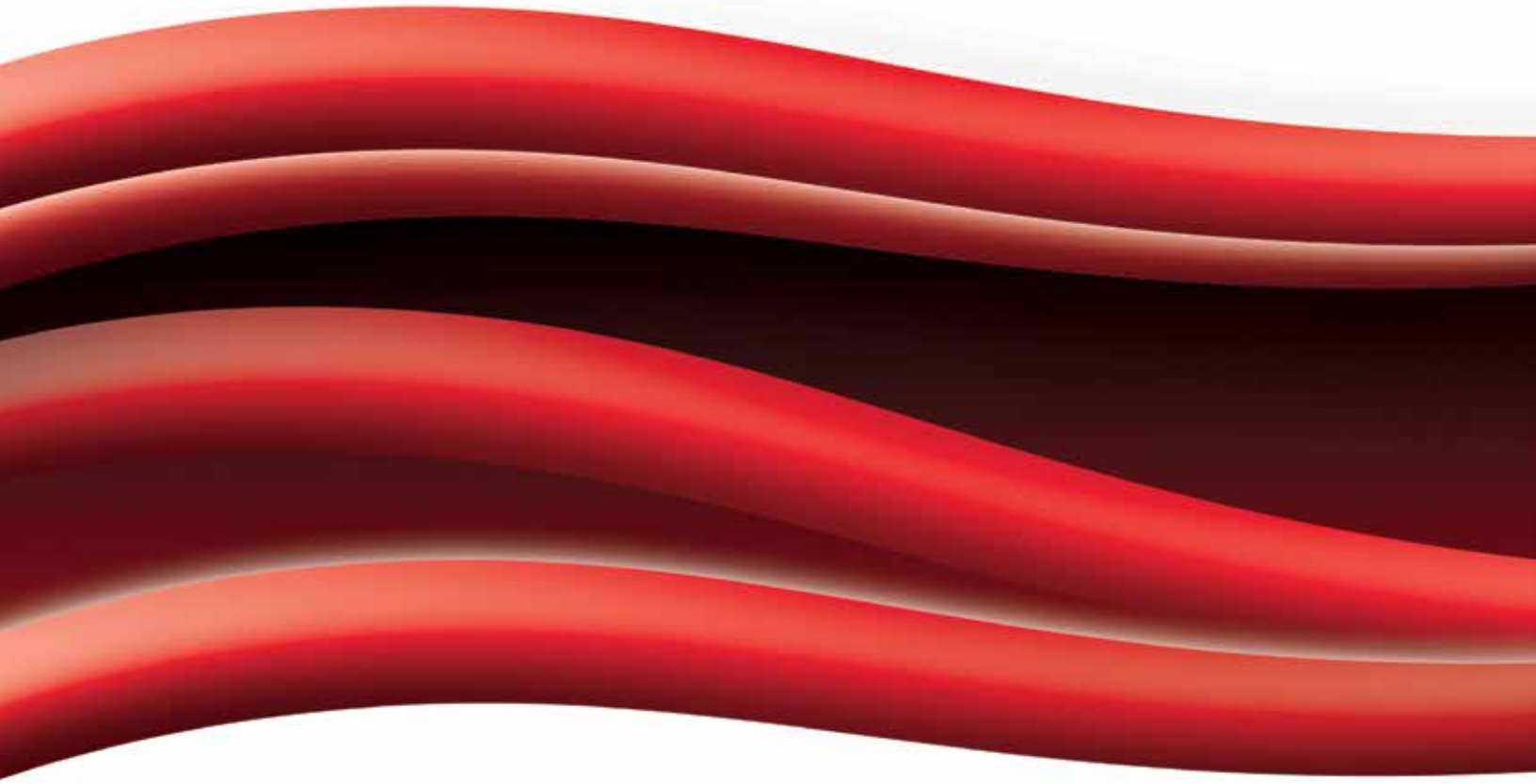
7. Delivery schedules are subject to prior sale and circumstances in effect at the time the purchase order iss acceptedd by C&K. C&K shall not be held responsible for delays in delivery due to strikes; work stoppages; fires; floods; accidents; inability to obtain materials, fuels or transportation; government edict; civil unrest or any other cause unavoidable or beyond the control of C&K. C&K shall not be liable for any damages or costs based upon late delivery including instances where C&K has been informed in advance of the consequences.

8. Unless otherwise agreed by C&K, all payments shall be in U.S. currency in immediate funds. Payment terms, unless otherwise agreed by C&K, shall be as specified on C&K's invoices. All amounts remaining unpaid beyond said terms shall accrue interest at the rate of one and one-half (1-1/2) percent per month or the highest lawful interest rate, whichever is lesser, until paid in full. C&K's prices are exclusive of sales, excise, use, occupation, value-added or any other taxes levied on sales transactions. Purchaser must pay all such applicable taxes unless it provides C&K with a valid, current exemption certificate. C&K shall have no obligation to contest or withhold such taxes on behalf of the purchaser.

9. Unless otherwise specified, all shipments are F.O.B. shipping point. Loading or special packaging charges shall be for the account of purchaser. Title to and possession of the product, including all risk of loss, shall pass to purchaser upon delivery to the carrier at the point of shipment.

10. C&K retains a security interest in all products shipped to secure payment of the purchase price and all other amounts owed by purchaser to C&K. Purchaser agrees to cooperate with C&K in protecting this security interest.

11. Any and all indemnities for the benefit of C&K hereunder shall include attorneys' fees and costs, including third party and expert witness fees. Furthermore, purchaser shall reimburse C&K for its costs and attorneys' fees in collecting any sums owed by purchaser to C&K, or for enforcing these Terms and Conditions of Sale with Limitations of Remedy and Liability.



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