

TP Series, Tiny

Features

- Compact design
- Round or rectangular actuator buttons.
- Vertical or right angle versions



Pushbutton Switches

Typical performance characteristics

Contact configuration	SPST, SPDT, DPDT
Contact timing	Break-Before-Make
Contact rating max.	gold: 0.4VA @20VDC or peak AC
	silver: 1A @ 125VAC or 28 VDC resistive
Electrical life	1 pole2 . . .2 pole
	gold 100,000 . . .80,000 cycles
	silver 60,000 . . .50,000 cycles
Contact resistance, initial	max.20 mOhms
Insulation resistance	1,000 MOhms @ 500VDC
Dielectric strength	1,000 Volts rms @ sea level
Actuation force	0.5 to 4N (50-400gf)
Actuator travel	momentary .030" (.762)

Environmental specification

Operating temperature	-30°C to +65°C
Storage temperature	-30°C to +65°C
Solder heat resistance	wave solder capable to 265° C

Material specifications

Contacts	copper or brass, gold over nickel finish or silver clad with silver over nickel finish
Actuator	thermoplastic
Terminals	brass with gold over nickel or silver over nickel
Case	thermoplastic
Frame and support bracket	steel with tin over copper finish
RoHS Directive 2002/95/EC	compliant

Product key	Typical product key	TP	A	1	1	C	G	PC	0	04
Type	TP Tiny pushbutton series									
Bushing	blank square, no bushing									
	A round, no bushing									
	B round .188 (4.78) dia. bushing not threaded									
	C round 10/48 UNS 2B thread									
	D .250" (6.35) dia. bushing, not threaded									
	F round 1/4-40 UNS 2B thread									
Actuator	blank standard									
	F flush (available with B and C bushings only)									
Number of Poles	1 single pole	2								
Contact rating	1 0.4VA Gold									
	2 1.0 A Silver (Silver available only in wire lug and PC termination)									
Function	single pole									
	C single throw, momentary	double pole								
	F double throw, momentary	M single throw, momentary								
	CC dual function C - 2 x single throw, momentary	R double throw, momentary								
	FF dual function F - 2 x double throw, momentary									
Plating	G Gold	blank Silver (Silver available only in wire lug and PC termination)								
Terminals	blank wire lug	RA right angle								
	PC printed circuit board	VRA vertical, right angle (available only in single pole)								
Button Color	0 black	2 red	6							
Material	04 RoHS compliant									

TP Series, Tiny (Continued)

Bushing

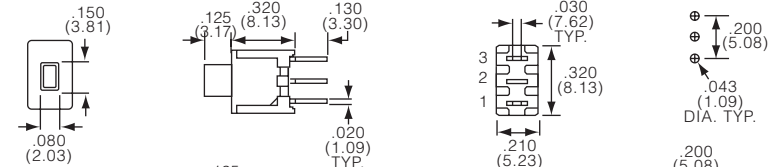


blank, square, no bushing

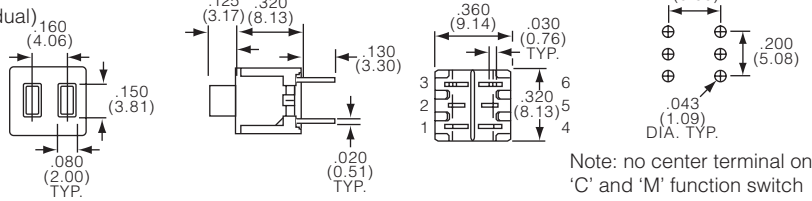
printed circuit board



Single pole



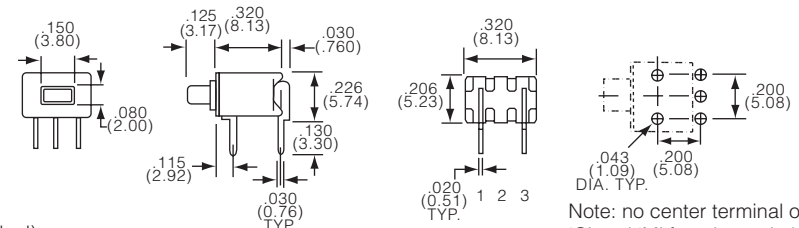
2 x Single pole (dual)



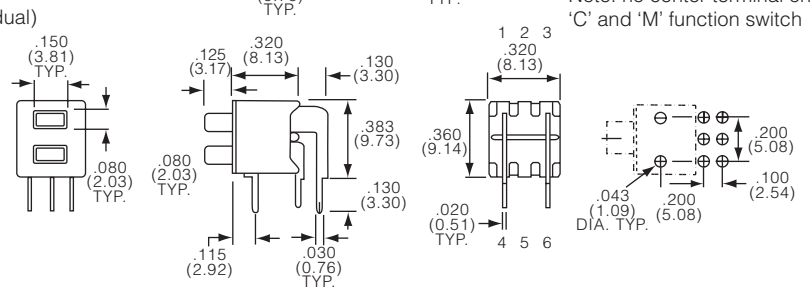
right angle



Single pole



2 x Single pole (dual)

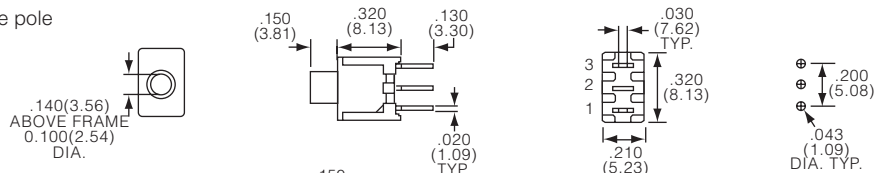


A, Round, no bushing

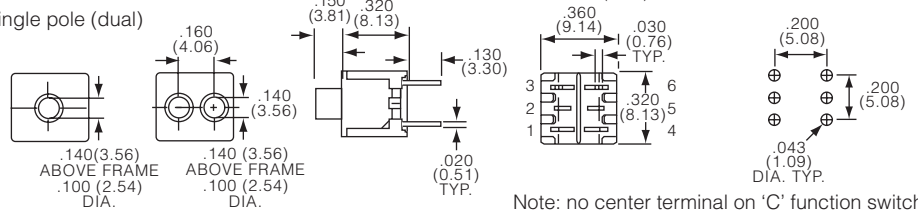
printed circuit board



Single pole

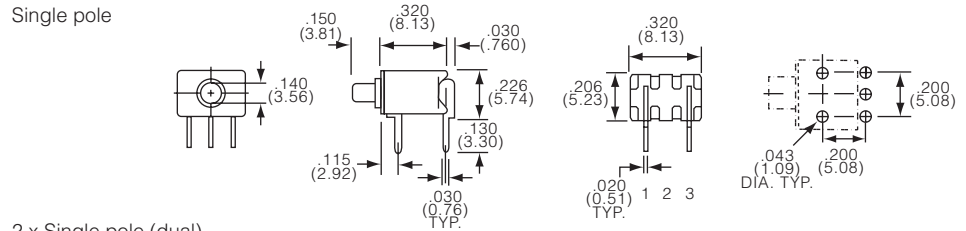


2 x Single pole (dual)

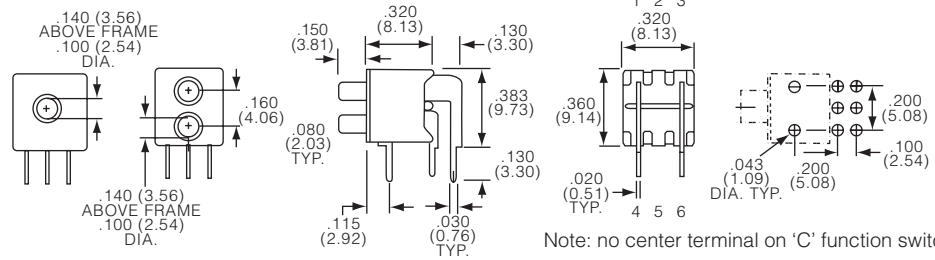


TP Series, Tiny (Continued)

right angle

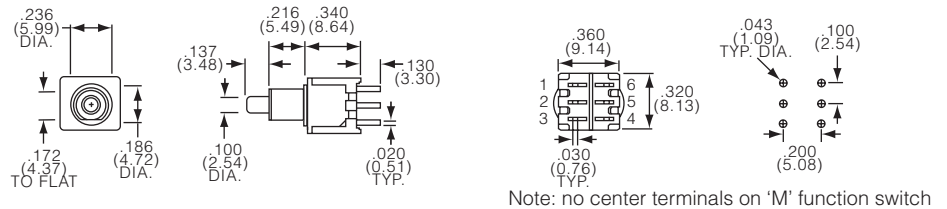
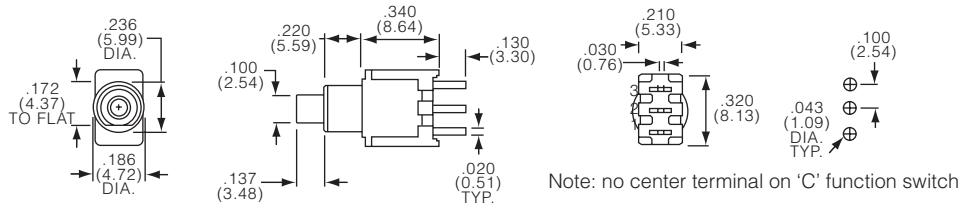


2 x Single pole (dual)

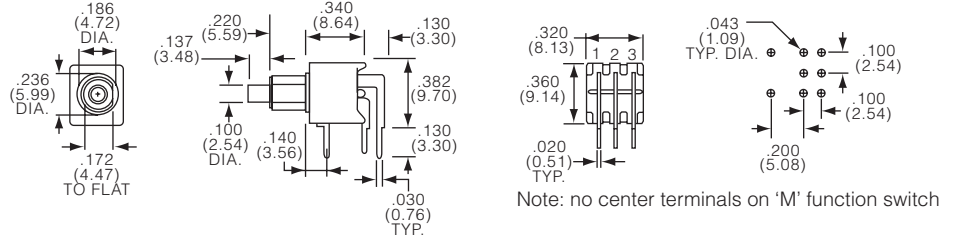
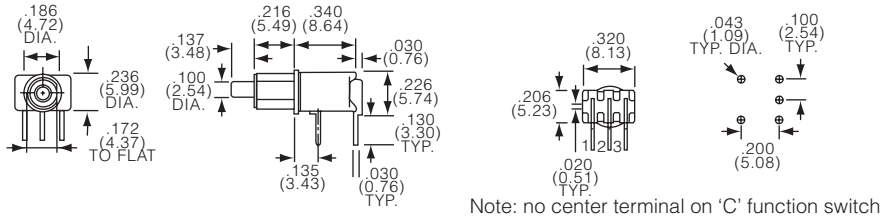


B, Round .188 (4.78) dia. bushing not threaded

printed circuit board

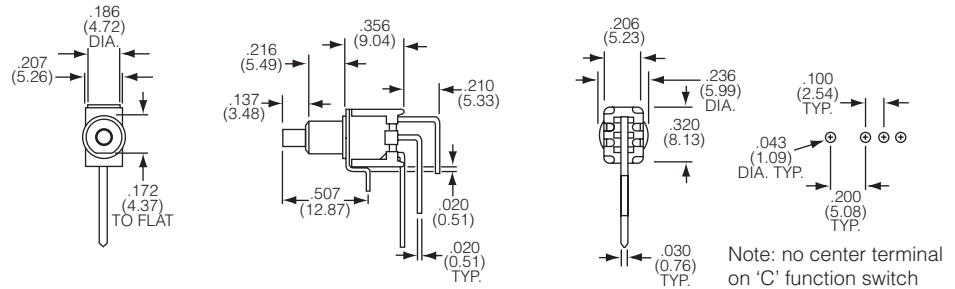


right angle

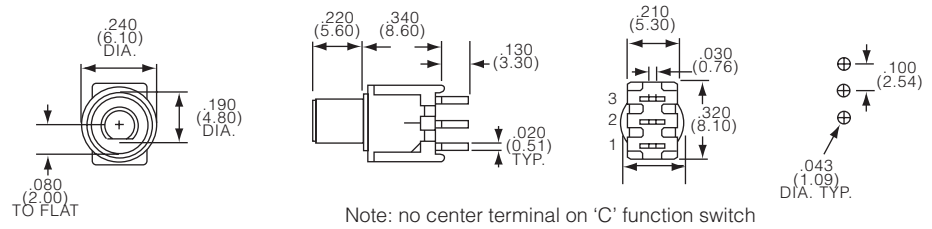


TP Series, Tiny (Continued)

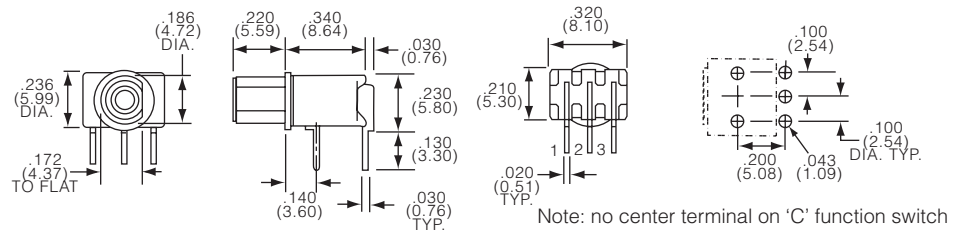
vertical right angle



printed circuit board, flush actuator

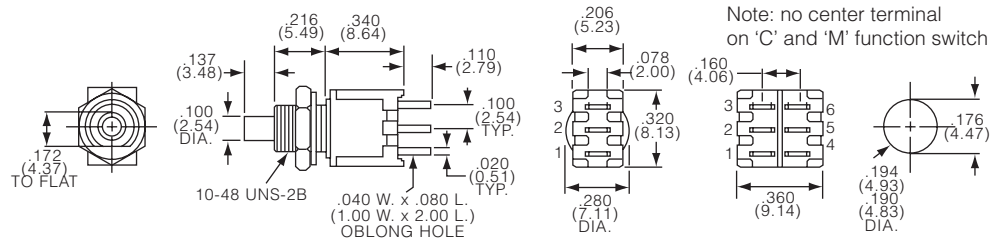


right angle, flush actuator

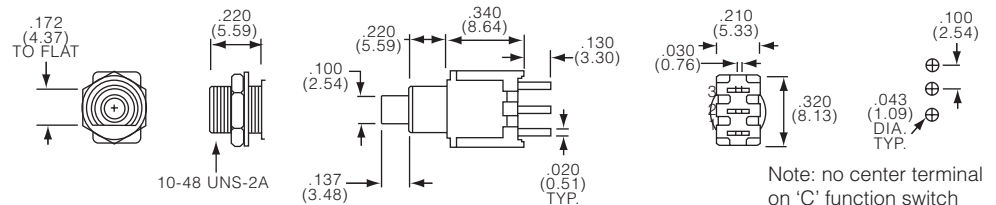


C, Round 10/48 UNS 2B thread

wire lug



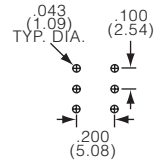
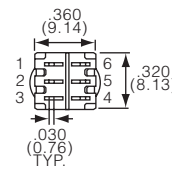
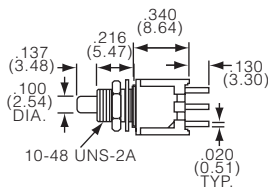
printed circuit board



TP Series, Tiny (Continued)



TPC21RGPC

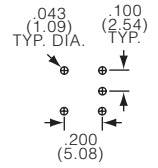
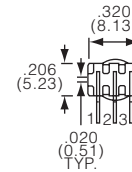
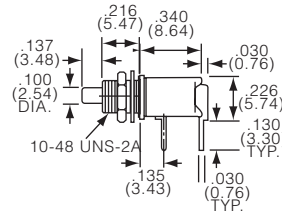


Note: no center terminals on 'M' function switch

right angle



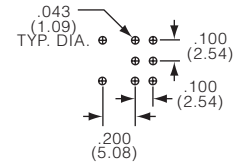
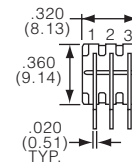
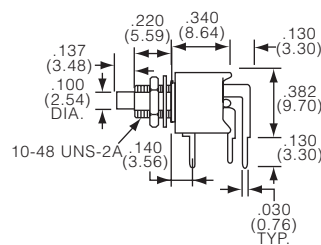
TPC11CGRA



Note: no center terminal on 'C' function switch

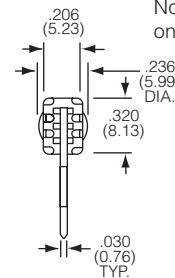
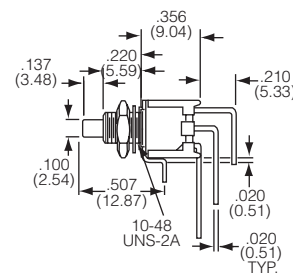
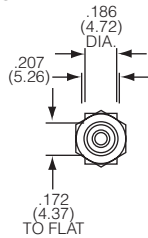


TPC21MGRA

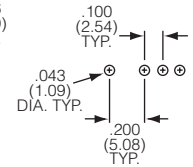


Note: no center terminals on 'M' function switch

vertical right angle



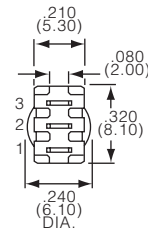
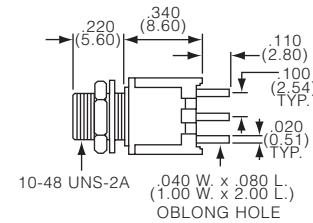
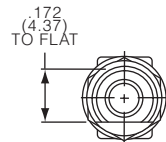
Note: no center terminal on 'C' function switch



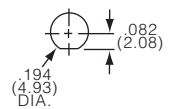
wire lug, flush actuator



TPCF13C



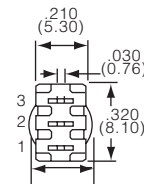
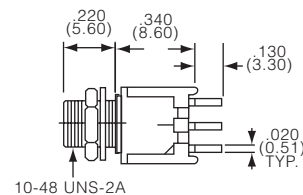
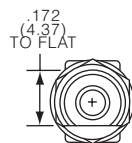
Note: no center terminal on 'C' function switch



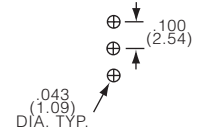
printed circuit board, flush actuator



TPCF11CGPC

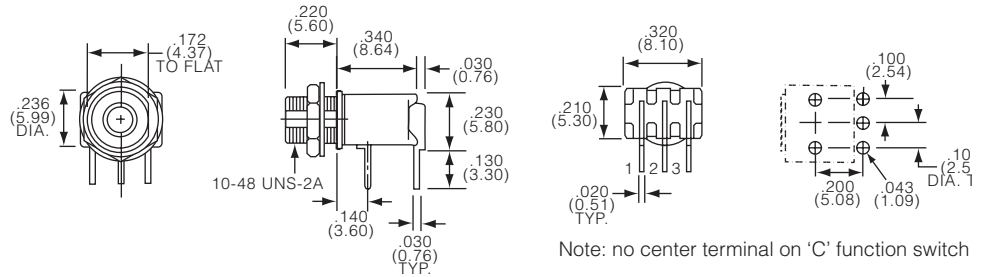


Note: no center terminal on 'C' function switch



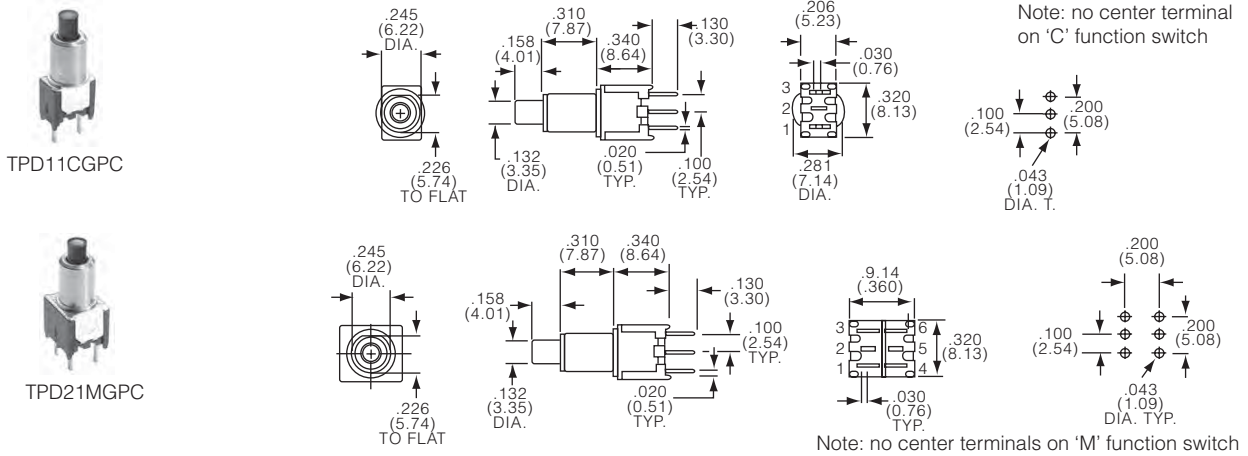
TP Series, Tiny (Continued)

right angle, flush actuator

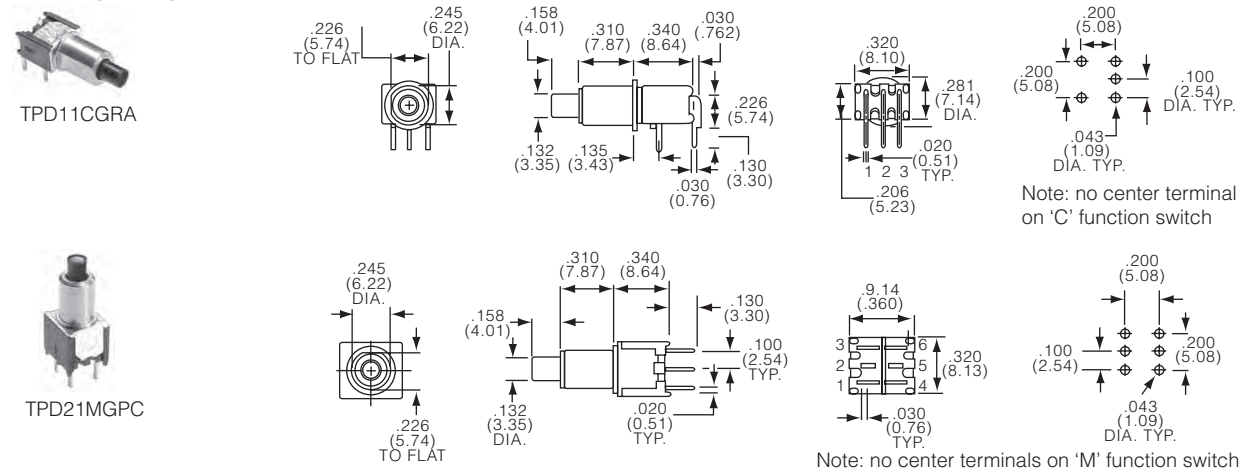


D, .250" (6.35) dia. bushing, not threaded

printed circuit board



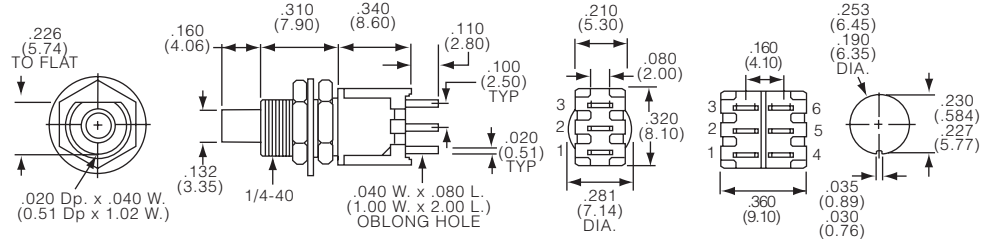
right angle



TP Series, Tiny (Continued)

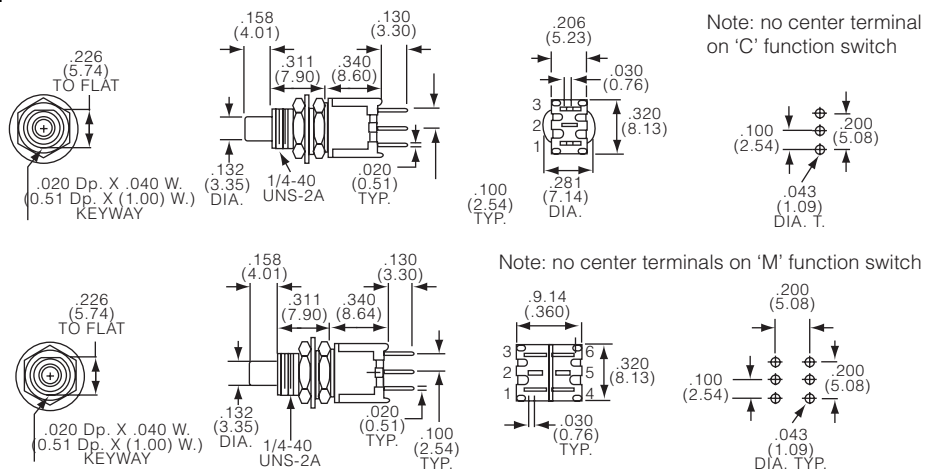
F, Round 1/4-40 UNS 2B thread

wire lug



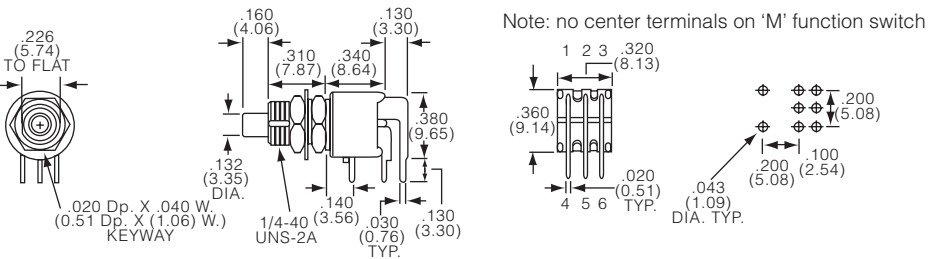
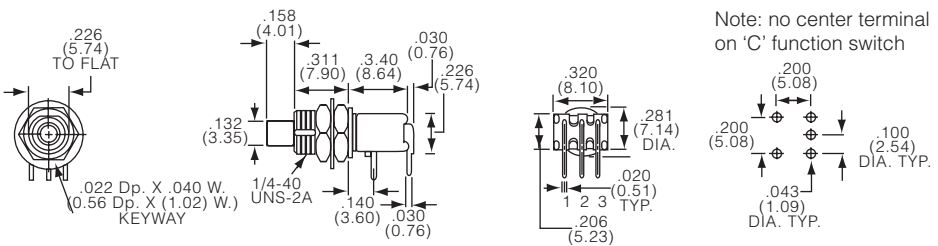
Note: no center terminal on 'C' and 'M' function switch

printed circuit board





Pushbutton Switches

right angle





TP Series, Tiny (Continued)

Product key	Bushing	Act.	Poles	Rating	Function			Plating	Terminals	Btn.	Material	Part Number
TP11CGPC004	square	n/a	1	0.4VA	Off-(On)	Off	1-3	Gold	pcb	black	RoHS	1825095-1
TP11CGPC204	no bushing									red	compliant	1825095-2
TP11CGRA004									right angle	black		1825095-3
TP11CGRA204										red		1825095-4
TP11CGRA604										blue		1825095-5
TP11FGPC004					On-(On)	1-2	2-3		pcb	black		1825095-6
TP11FGPC204										red		1825095-7
TP11FGRA004									right angle	black		1825095-8
TP11FGRA204										red		1825095-9
TP11FGRA604										blue		1-1825095-0
TP21CCGRA004			2 (1+1)		Off-(On)	Off	1-3			black		1-1825095-1
TP21CCGRA204										red		1-1825095-2
TP21FFGRA004					On-(On)	1-2	2-3			black		1-1825095-3
TPA11CGPC004	round		1		Off-(On)	Off	1-3		pcb			1825096-1
TPA11CGPC204	no bushing									red		1825096-2
TPA11CGPC604										blue		1825096-3
TPA11CGRA004									right angle	black		1825096-4
TPA11CGRA204										red		1825096-5
TPA11CGRA604										blue		1825096-6
TPA11FGPC004					On-(On)	1-2	2-3		pcb	black		1825096-7
TPA11FGPC204										red		1825096-8
TPA11FGPC604										blue		1825096-9
TPA11FGRA004									right angle	black		1-1825096-0
TPA11FGRA204										red		1-1825096-1
TPA11FGRA604										blue		1-1825096-2
TPA21CCGPC004			2 (1+1)		Off-(On)	Off	1-3, 4-6		pcb	black		1-1825096-3
TPA21CCGRA004									right angle			1-1825096-4
TPA21FFGRA204					On-(On)	1-2, 4-5	2-3, 5-6			red		1-1825096-5
TPA21MGRA004			2		Off-(On)	Off	1-3, 4-6			black		1-1825096-6
TPB11CGPC004	round	std	1				1-3		pcb			1825097-1
TPB11CGPC204	.188 (4.78)									red		1825097-2
TPB11CGRA004	dia								right angle	black		1825097-6
TPB11CGRA204	bushing,									red		1825097-4
TPB11CGVRA004	not								vertical r.a.	black		1825097-8
TPB11FGPC004	threaded				On-(On)	1-2	2-3		pcb			1825097-9
TPB11FGRA004									right angle			1-1825097-1
TPB11FGRA204										red		1-1825097-2
TPB11FGRA604										blue		1-1825097-3
TPB11FGVRA004									vertical r.a.	black		1-1825097-6
TPB21MGPC004			2		Off-(On)	Off	1-3, 4-6		pcb			1-1825097-7
TPB21MGPC204										red		1-1825097-8
TPB21MGRA004									right angle	black		2-1825097-8
TPB21RGRA004					On-(On)	1-2, 4-5	2-3, 5-6					1-1825097-9
TPB21RGRA0EDC04												1825112-1
TPBF11CGRA004		flush	1		Off-(On)	Off	1-3					2-1825097-1
TPBF11FGRA004					On-(On)	1-2	2-3					2-1825097-4
TPBF11FGRA204										red		2-1825097-5

Preferred parts in bold print

TP Series, Tiny (Continued)

Pushbutton Switches

Product key	Bushing	Act.	Poles	Rating	Function			Plating	Terminals	Btn.	Material	Part Number
TPC11CGPC004	round	std	1	0.4VA	Off-(On)	Off	1-3	Gold	pcb	black	RoHS compliant	1825098-1
TPC11CGRA004	10/48								right angle			1825098-2
TPC11CGRA204	UNS 2B									red		1825098-3
TPC11CGVRA004	thread								vertical r.a.	black		1825098-4
TPC11FGPC004					On-(On)	1-2	2-3		pcb			1825098-5
TPC11FGRA004									right angle			1825098-6
TPC11FGVRA004									vertical r.a.			1825098-7
TPC11FGVRA204										red		1825098-8
TPC13C004				1.0 A	Off-(On)	Off	1-3	Silver	wire lug	black		1825098-9
TPC13C204										red		1-1825098-0
TPC13CPC004									pcb	black		1-1825098-1
TPC13F004					On-(On)	1-2	2-3		wire lug			1-1825098-2
TPC21MGRA204			2	0.4VA	Off-(On)	Off	1-3, 4-6	Gold	right angle	red		1-1825098-3
TPC21RGPC004					On-(On)	1-2, 4-5	2-3, 5-6		pcb	black		1-1825098-4
TPC23M004				1.0 A	Off-(On)	Off	1-3, 4-6	Silver	wire lug			1-1825098-5
TPC23R204					On-(On)	1-2, 4-5	2-3, 5-6			red		1-1825098-6
TPCF11CGPC004		flush	1	0.4VA	Off-(On)	Off	1-3	Gold	pcb	black		1-1825098-7
TPCF11CGRA004									right angle			1-1825098-8
TPCF11FGRA004					On-(On)	1-2	2-3					1-1825098-9
TPCF13C004				1.0 A	Off-(On)	Off	1-3	Silver	wire lug			2-1825098-0
TPCF13F004					On-(On)	1-2	2-3					2-1825098-1
TPD11CGPC004	.259 (6.35)	n/a		0.4VA	Off-(On)	Off	1-3	Gold	pcb			1825099-1
TPD11CGPC204	dia									red		1825099-2
TPD11CGRA004	bushing,								right angle	black		1825099-3
TPD11CGRA204	not									red		1825099-4
TPD11CGRA604	threaded									blue		1825099-5
TPD11FGPC004					On-(On)	1-2	2-3		pcb	black		1825099-6
TPD11FGRA004									right angle			1825099-7
TPD11FGRA204										red		1825099-8
TPD21MGRA004			2		Off-(On)	Off	1-3, 4-6			black		1825099-9
TPD21RGPC004					On-(On)	1-2, 4-5	2-3, 5-6		pcb			1-1825099-0
TPF11CGPC004	round		1		Off-(On)	Off	1-3					1825100-1
TPF11CGPC204	1/4-40									red		1825100-2
TPF11CGRA004	UNS 2B								right angle	black		1825100-4
TPF11CGRA204	thread									red		1825100-5
TPF11CGRA604										blue		1825100-6
TPF11FGPC004					On-(On)	1-2	2-3		pcb	black		1825100-7
TPF11FGPC204										red		1825100-8
TPF11FGPC604										blue		1825100-9
TPF11FGRA004									right angle	black		1-1825100-1
TPF13C004				1.0 A	Off-(On)	Off	1-3	Silver	wire lug			1-1825100-2
TPF13C204										red		1-1825100-3
TPF13F204					On-(On)	1-2	2-3					1-1825100-4
TPF13F604										blue		1-1825100-5
TPF21MGPC004			2	0.4VA	Off-(On)	Off	1-3, 4-6	Gold	pcb	black		1-1825100-6
TPF21RGRA004					On-(On)	1-2, 4-5	2-3, 5-6		right angle			1-1825100-7
TPF23M004				1.0 A	Off-(On)	Off	1-3, 4-6	Silver	wire lug			1-1825100-8

Mouser Electronics

Authorized Distributor

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TE Connectivity:

[TPF11FGPC0](#) [TP11CGRA2](#) [TPF11CGPC0](#) [TPBF11CGRA0](#) [TPD11CGRA0](#) [TPB11FGPC004](#) [TPD11CGPC004](#)
[TPF11FGRA004](#) [TP11FGRA204](#) [TPA11CGPC204](#) [TPD11CGRA004](#) [TPA11CGPC604](#) [TPC11CGRA204](#)
[TPD11CGPC204](#) [TPA11FGRA204](#) [TPB11FGRA604](#) [TPD11FGPC004](#) [TPD11FGRA004](#) [TPD11FGRA0](#)
[TPB21MGPC004](#) [TP11CGRA204](#) [TP11CGRA604](#) [TP11CGRA004](#) [TP11FGPC204](#) [TP11FGRA004](#) [TP11FGRA604](#)
[TP21CCGRA004](#) [TPA11CGRA604](#) [TPA11FGPC204](#) [TPA11FGPC604](#) [TPA11FGRA604](#) [TPA21FFGRA204](#)
[TPB21RGRA004](#) [TPC11CGVRA004](#) [TPC11FGVRA004](#) [TPC21MGRA2](#) [TPC21MGRA204](#) [TPCF11CGPC0](#)
[TPCF11FGRA0](#) [TPCF11FGRA004](#) [TPD11CGRA2](#) [TPD11FGRA2](#) [TPD11FGRA204](#) [TPD21MGRA004](#)
[TPD21RGPC004](#) [TPF11CGPC2](#) [TPF11CGPC204](#) [TPF21MGPC004](#) [TPF21RGRA004](#)