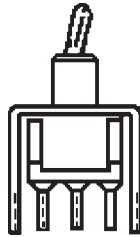


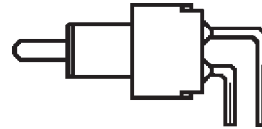
SPECIFICATIONS:

Contact Ratings: Silver, 5A 125 VAC ; Gold, 0.4VA @ 20 VDC max.
Contact Resistance: 300 milliohms maximum initial.
Insulation Resistance: 1,000 megohms minimum @ 500 VDC.
Dielectric Strength: 1,000 volts RMS at sea level initial.
Electrical Life: 60,000 operations (For-01 function only). All others 30,000.
Operating Temperature: -30°C to +85°C



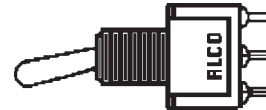
TOGGLE SWITCH, STRAIGHT PC MOUNT, LONG BAT HANDLE, THREADED BUSHING 1/4-40

PART NUMBER	CONTACTS	ACTION	CONTACT MATERIAL	NET EACH
A101SYCB	SPDT	ON-ON	GOLD	CALL
A101SYCQ	SPDT	ON-ON	SILVER	
A103SYCB	SPDT	ON-OFF-ON	GOLD	
A103SYZQ	SPDT	ON-OFF-ON	SILVER	
A201SYCB	DPDT	ON-ON	GOLD	
A201SYZQ	DPDT	ON-ON	SILVER	
A203SYZQ	DPDT	ON-OFF-ON	SILVER	



TOGGLE SWITCH, RIGHT ANGLE, PC MOUNT, GOLD CONTACTS, UNTHREADED, .28" BUSHING

PART NUMBER	CONTACTS	ACTION	CONTACT MATERIAL	NET EACH
A101MD9AB	SPDT	ON-ON	GOLD	CALL
A201MD9AQ	DPDT	ON-ON	GOLD	



TOGGLE SWITCH, SOLDER LUG TERMINALS, PANEL MOUNT WITH 1/4-40 THREADED BUSHING .35" LONG

PART NUMBER	CONTACTS	ACTION	CONTACT MATERIAL	NET EACH
A101SYZQ	SPST	ON-ON	SILVER	CALL
A103SYZQ	SPDT	ON-OFF-ON	SILVER	
A105SYZQ	SPDT	MON.ON-OFF-MON.ON	SILVER	
A107SYZQ	SPDT	ON-OFF-MON.ON	SILVER	
A108SYZQ	SPDT	ON-MON.ON	SILVER	
A201SYZQ	DPDT	ON-ON	SILVER	

TOGGLE SWITCHES

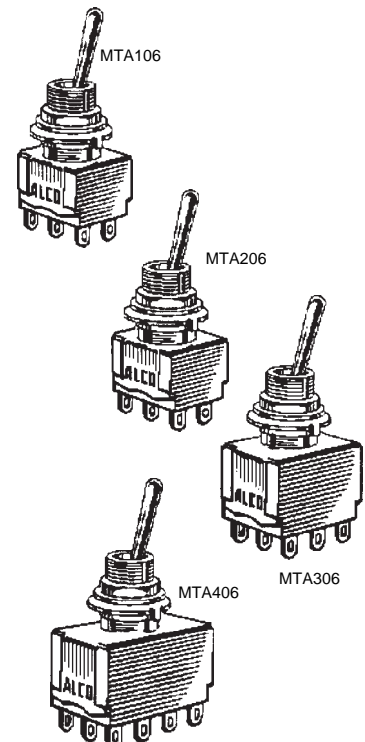


Contacts: Gold Flash over Silver
Contact Rating: 6 Amps at 125 VAC or 3 Amps at 250 VAC , 4Amps at 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1500V RMS at Sea Level
Operating Temperature: +4 °F to 176 °F
Storage Temperature: -40 °F to +176°F
Terminals: Gold Flash
Mounting Hole: .227 to .230 inches

MINIATURE BAT TOGGLE
MTA SERIES
SPDT,DPDT,SP3T,3PDT,4PDT,DP3T

PART NUMBER	CONTACTS	ACTION	NET EACH
MTA106D	SPDT	ON, NONE, ON	CALL
MTA106E	SPDT	ON, OFF, ON	
MTA106F	SPDT	ON, NONE, (ON)	
MTA106G	SPDT	(ON), OFF, (ON)	
MTA106H	SPDT	ON, OFF (ON)	CALL
MTA206N	DPDT	ON, NONE, ON	
MTA206P	DPDT	ON, OFF, ON	
MTA206R	DPDT	ON, NONE, (ON)	
MTA206S	DPDT	(ON), OFF, (ON)	
MTA206T	DPDT	ON, OFF, (ON)	
MTA206PA	SP3T	ON, ON, ON,	CALL
MTA306D	3PDT	ON, NONE, ON	CALL
MTA306E	3PDT	ON, OFF, ON	CALL
MTA406N	4PDT	ON, NONE, ON	
MTA406P	4PDT	ON, OFF, ON	
MTA406PA	DP3T	ON ,ON, ON	

(ON) INDICATES MOMENTARY POSITION



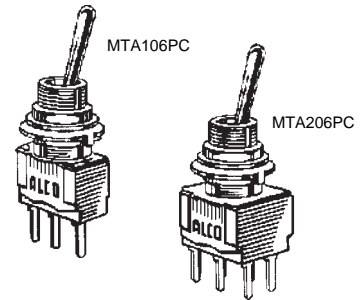
Prices listed in this catalog are for estimating purposes. Prices were correct first column net at the time the pages were composed. Prices are subject to change without notice. Quantity prices are available. Please call any of the toll free numbers on the back cover for current and/or quantity prices.



Contacts: Gold Flash over Silver
Contact Rating: 6 Amps at 125 VAC or 3 Amps at 250 VAC , 4 Amps at 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1500V RMS at Sea Level
Operating Temperature: +4 °F to 176 °F
Storage Temperature: -40 °F to +176°F
Terminals: Gold Flash
Mounting Hole: .227 to .230 inches

MINIATURE BAT TOGGLE PC SERIES MTA-PC SPDT,DPDT

PART NUMBER	CONTACTS	ACTION	NET EACH
MTA106DPC	SPDT	ON, NONE, ON	CALL
MTA106EPC	SPDT	ON, OFF, ON	
MTA106FPC	SPDT	ON, NONE, (ON)	
MTA206NPC	DPDT	ON, NONE, ON	
MTA206PPC	DPDT	ON, OFF, ON	



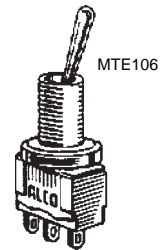
(ON) INDICATES MOMENTARY POSITION



Contacts: Gold Flash over Silver
Contact Rating: 6 Amps at 125 VAC or 3 Amps at 250 VAC , 4 Amps at 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1500V RMS at Sea Level
Operating Temperature: +4 °F to 176 °F
Storage Temperature: -40 °F to +176°F
Terminals: Gold Flash
Mounting Hole: .227 to .230 inches

MINIATURE BAT TOGGLE SPLASHPROOF MTE SERIES SPDT,DPDT

PART NUMBER	CONTACTS	ACTION	NET EACH
MTE106D	SPDT	ON, NONE, ON	CALL
MTE106E	SPDT	ON, OFF, ON	
MTE106F	SPDT	ON, NONE, (ON)	
MTE106G	SPDT	ON, OFF, (ON)	
MTE206N	DPDT	ON, NONE, ON	



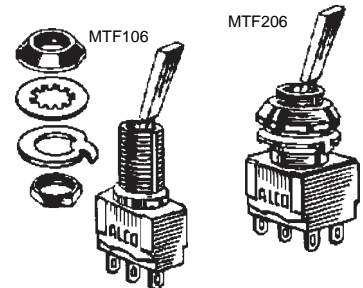
(ON) INDICATES MOMENTARY POSITION



Contacts: Gold Flash over Silver
Contact Rating: 6 Amps at 125 VAC or 3 Amps at 250 VAC , 4Amps at 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1500V RMS at Sea Level
Operating Temperature: +4 °F to 176 °F
Storage Temperature: -40 °F to +176°F
Terminals: Gold Flash
Mounting Hole: .227 to .230 inches

MINIATURE BAT TOGGLE SPLASHPROOF MTF SERIES SPDT, DPDT, 4PDT

PART NUMBER	CONTACTS	ACTION	NET EACH
MTF106D	SPDT	ON, NONE, ON	CALL
MTF106E	SPDT	ON, OFF, ON	
MTF206N	DPDT	ON,NONE,ON	



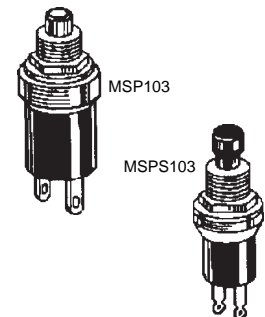
(ON) INDICATES MOMENTARY POSITION

PUSH BUTTON SWITCHES

Contacts: Silver plate
Contact Rating: MSP103-3 Amps at 125 VAC with over travel . MSPS103 -0.5 Amps at 125 VAC, Butt contact
Initial Contact Resistance: 100 miliohms max.
Contact Timing: Make before Break
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1000V RMS at Sea Level
Life Expectancy: 10,000 Cycles
Operating Temperature: -4°F to 176°F
Storage Temperature: -40°F to +176°F
Terminals: Silver Plate
Mounting Hole: .250 to .253 Inches
Cap Supplied: Black, or Red

MOMENTARY SUB-MINIATURE PUSHBUTTON MSP3 & MSPS SERIES

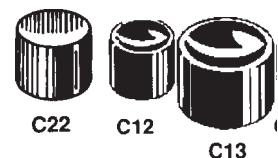
PART NUMBER	CONTACTS	ACTION	BUTTON COLOR	NET EACH
MSP103B	SPST	N.C.	BLACK	CALL
MSP103C	SPST	N.O.	RED	
MSPS103B	SPST	N.C.	BLACK	



CAPS FOR PUSHBUTTON SERIES

HOW TO ORDER:
 (*) Specify Color By Adding Suffix Number:
 (0) BLACK - (2) RED - (3) ORANGE - (4) YELLOW - (5) GREEN - (6) BLUE - (9) WHITE - (12) PINK.

PART NUMBER	DESCRIPTION	COLOR	NET EACH
C12(*) C22(*)	Small Plastic Cap .39" Dia. Cap	0,2,5 0,2,3,4,5,6,9	CALL



Contacts: Silver Clad
Contact Rating: 500mA at 125 VAC Butt Contact
 MPA 103B & C / 3 Amps at 125 VAC Snap action
 MPA 103D & F
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1000V RMS at Sea Level
Life Expectancy: 10,000 Cycles
Operating Temperature: -4°F to 158°F
Storage Temperature: -40°F to 176°F
Terminals: Silver Plate
Mounting Hole: .250 to 253 Inches
Cap Supplied: Black

**SUB-MINIATURE PUSH-BUTTON
MPA3 SERIES**

PART NUMBER	CONTACTS	ACTION	BUTTON COLOR	NET EACH
MPA103C	SPST	N.O.	BLACK	CALL
MPA103D	SPDT	ON/OFF	BLACK	
MPA103F	SPDT	MOM	BLACK	



MPA103B WITH CAP

Contacts: Silver Plate
Contact Rating: 3 Amps at 125 VAC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1000V RMS at Sea Level
Life Expectancy: 20,000 Cycles
Operating Temperature: +14°F to 140°F
Storage Temperature: +5°F to 158°F
Terminals: Silver Plate
Mounting Hole: .250 to 253 Inches
Cap Supplied: Red

**MINIATURE PUSH-BUTTON MOMENTARY WITH OVER TRAVEL
MPB SERIES**

PART NUMBER	CONTACTS	ACTION	BUTTON COLOR	NET EACH
MPB103C	SPST	N.O.	RED	CALL



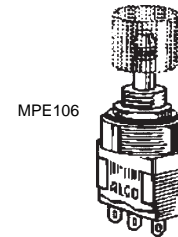
MPB103 WITH CAP



**MINI-PUSHBUTTON SPLASH PROOF MPE SERIES
SPDT & DPDT**

Contacts: Solid Silver With Gold Flash
Contact Rating: 6 Amps at 125 VAC , 3Amps at 250 VAC, 4Amps at 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1500V RMS at Sea Level
Life Expectancy : 50,000 Cycles
Operating Temperature: -4°F to +176°F
Storage Temperature: -40°F to 176°F
Terminals: Gold Flash
Mounting Hole: .250 to 253 Inches
Cap Not Supplied: Use Cap #C22 & C23

PART NUMBER	CONTACTS	ACTION	NET EACH
MPE106D	SPDT	ON/OFF	CALL
MPE106F	SPDT	MOM	
MPE206N	DPDT	ON/OFF	
MPE206R	DPDT	MOM	



MPE106



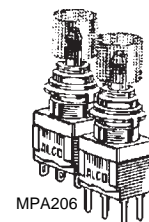
**MINIATURE PUSH-BUTTON MPA-6 SERIES
SPDT, DPDT, 3PDT, AND 4PDT**

Contacts: Solid Silver
Contact Rating: 6 Amps at 125 VAC , 3Amps at 250 VAC, 4Amps at 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms minimum.
Dielectric Strength: 1500V RMS at Sea Level
Life Expectancy: 50,000 Cycles
Operating Temperature: -4°F to +176°F
Storage Temperature: -40°F to 176°F
Process Seal: Splash Proof
Terminals: Gold Flash
Mounting Hole: .250 to 253 Inches
Cap Not Supplied: Use Cap #C22 & C23

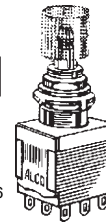
PART NUMBER	CONTACTS	ACTION	NET EACH
MPA106D	SPDT	ON/OFF	CALL
MPA106F	SPDT	MOM	
MPA206N	DPDT	ON/OFF	
MPA206R	DPDT	MOM	
MPA206RPC	DPDT	MOM	
MPA306F	3PDT	MOM	



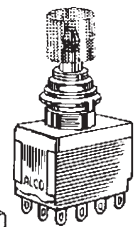
MPA106



MPA206



MPA306

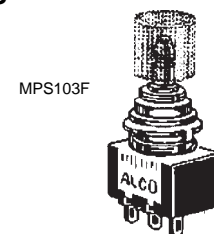


MPA406

Contacts: Silver
Contact Rating: 3 Amps at 115 VAC , or 28 VDC
Initial Contact Resistance: 20 miliohms max.
Insulation Resistance: 1000 Megohms at 500 VDC min.
Dielectric Strength: 1500V RMS at Sea Level
Life Expectancy: 50,000 Cycles
Operating Temperature: +5°F to +158°F
Storage Temperature: +5°F to 158°F
Terminal Seal: epoxy
Terminals: Silver
Mounting Hole: .250 to 253 Inches
Cap Not Supplied: Use Cap #C22 & C23

**SNAP ACTION PUSHBUTTON MPS SERIES
SPDT & DPDT**

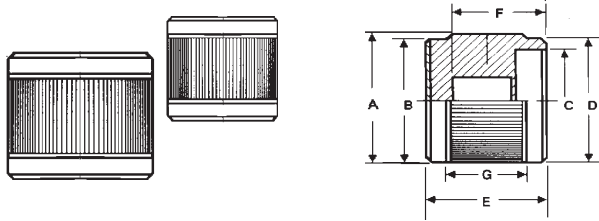
PART NUMBER	CONTACTS	ACTION	TERMINALS	NET EACH
MPS103D	SPDT	ON/OFF	WIRE LUG	CALL
MPS103F	SPDT	MOM	WIRE LUG	
MPS203N	DPDT	ON/OFF	WIRE LUG	
MPS203R	DPDT	MOM	WIRE LUG	



MPS103F

MACHINED ALUMINUM SERIES

KN SERIES
STRAIGHT KNURL WITH ARROWHEAD INDICATOR



PART NO.	COLOR	A	B	C	D	E	F	G	NET EACH
KN501A1/8	NATURAL	.500	.450	.380	.450	.630	.510	.460	CALL
KN501A1/4	NATURAL	.500	.450	.380	.450	.630	.510	.460	
KN501B1/8	BLACK	.500	.450	.380	.450	.630	.510	.460	
KN501B1/4	BLACK	.500	.450	.380	.450	.630	.510	.460	
KN701BA1/4	NATURAL	.750	.680	.590	.700	.630	.510	.460	
KN701B1/4	BLACK	.750	.680	.590	.700	.630	.510	.460	
KN501BA1/8*	BLK. & NTL.	.500	.450	.380	.450	.630	.510	.460	
KN501BA1/4*	BLK. & NTL.	.500	.450	.380	.450	.630	.510	.460	
KN701BA1/8*	BLK. & NTL.	.750	.680	.590	.700	.630	.510	.460	
KN701BA1/4*	BLK. & NTL.	.750	.680	.590	.700	.630	.510	.460	

* BODY BLACK /TOP NATURAL

KNS SERIES
STRAIGHT KNURL WITH ARROWHEAD INDICATOR ON SKIRT

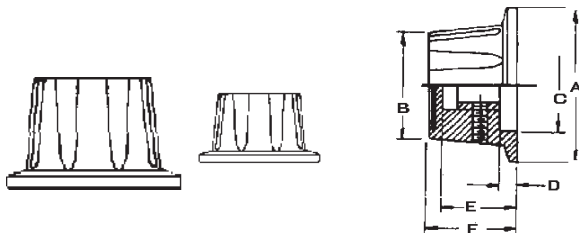


PART NO.	COLOR	A	B	C	D	E	F	G	NET EACH
KNS501B1/8	BLACK	.500	.450	.380	.750	.630	.510	.430	CALL
KNS501B1/4	BLACK	.500	.450	.380	.750	.630	.510	.430	
KNS701A1/4	NATURAL	.750	.700	.590	1.13	.630	.510	.430	
KNS701B1/4	BLACK	.750	.700	.590	1.13	.630	.510	.430	
KNS501BA1/8*	BLK. & NTL.	.500	.450	.380	.750	.630	.510	.430	
KNS501BA1/4*	BLK. & NTL.	.500	.450	.380	.750	.630	.510	.430	
KNS701BA1/8*	BLK. & NTL.	.750	.700	.590	1.13	.630	.510	.430	
KNS701BA1/4*	BLK. & NTL.	.750	.700	.590	1.13	.630	.510	.430	

* BODY BLACK /TOP NATURAL

MOLDED PHENOLIC SERIES

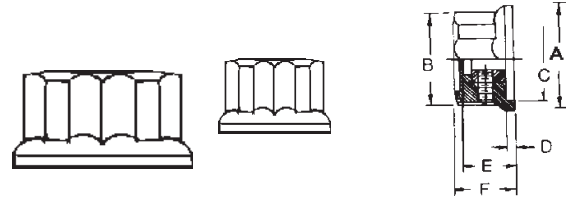
PKB SERIES
FLUTED WITH INDICATOR LINE ON SKIRT



PART NO.	COLOR	A	B	C	D	E	F	NET EACH
PKB70B1/4	BLACK	1.12	.750	.670	.120	.480	.600	CALL
PKB90B1/4	BLACK	1.50	1.00	.800	.120	.700	.820	

MOLDED PHENOLIC SERIES

KPKES SERIES
FLUTED WITH SKIRT AND INDICATOR LINE



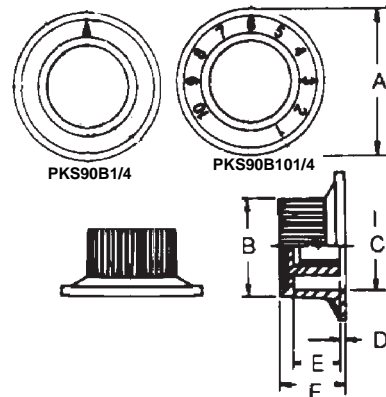
PART NO.	COLOR	A	B	C	D	E	F	NET EACH
PKES60B1/8	BLACK	.750	.620	.460	.090	.370	.470	CALL
PKES60B1/4	BLACK	.750	.620	.460	.090	.370	.470	
PKES70B1/4	BLACK	.850	.750	.710	.080	.420	.540	
PKES90B1/4	BLACK	1.00	.890	.870	.080	.470	.570	
PKES120B1/4	BLACK	1.30	1.16	1.00	.120	.500	.630	
PKES140B1/4	BLACK	1.48	1.35	1.22	.120	.550	.690	

PKG SERIES
RIBBED WITH INDICATOR LINE



PART NO.	COLOR	A	B	C	E	D	F	NET EACH
PKG60B1/4	BLACK	.660	.610	.550	.080	.430	.550	CALL
PKG70B1/4	BLACK	.740	.700	.590	.080	.450	.550	
PKG90B1/4	BLACK	.860	.810	0.72	.080	.410	.550	

PKS SERIES
STRAIGHT KNURL WITH ALUMINUM SKIRT
CHOICE OF ARROW OR 1-10 NUMBERS



PART NO.	COLOR	A	B	C	D	E	F	NET EACH
PKS90B1/4	BLACK	1.42	.910	.780	.060	.490	.590	CALL
PKS90B101/4	BLACK	1.42	.910	.780	.060	.490	.590	