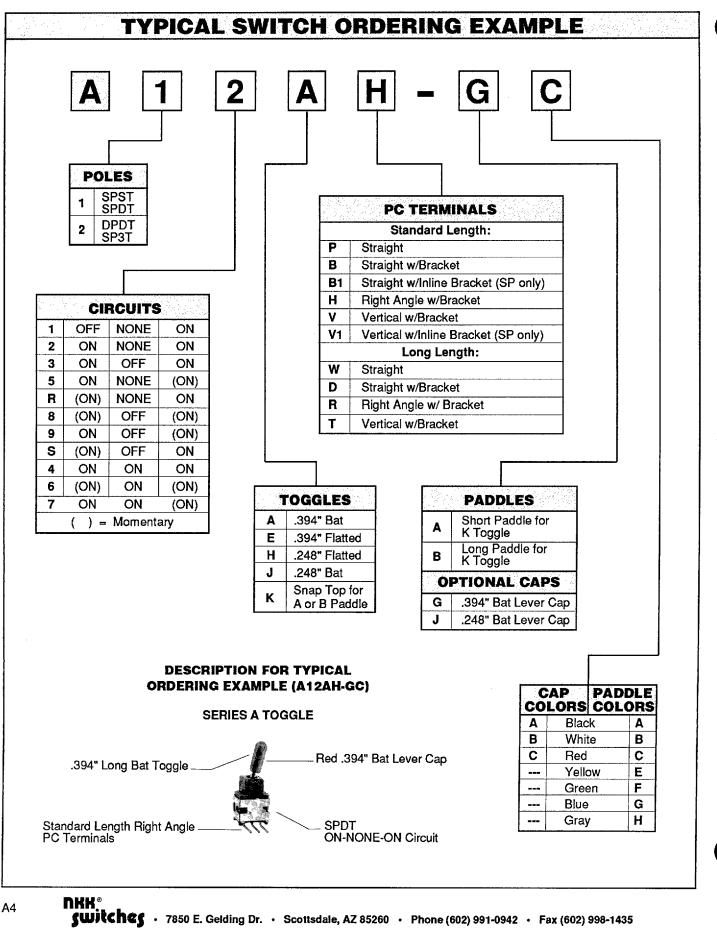
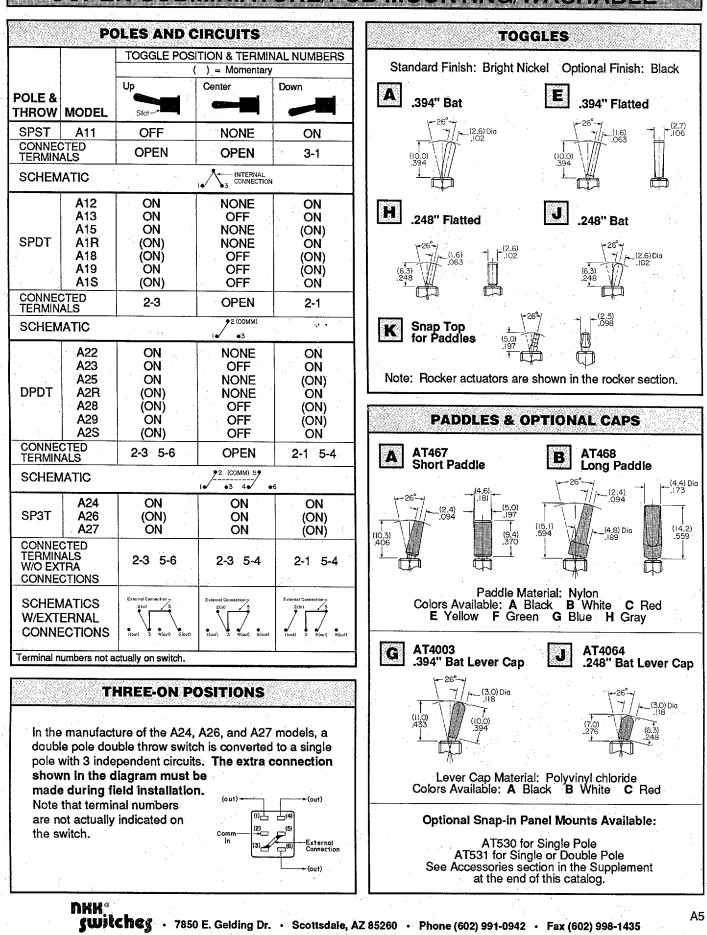
MARKES A TOGGLE SWITCHES

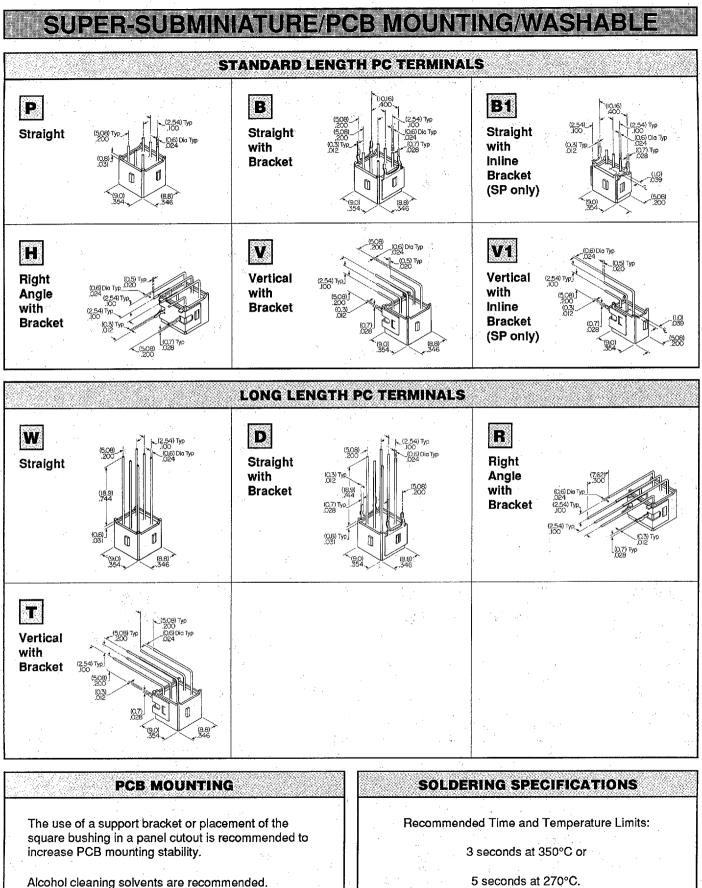
SUPER-SUBMINIATURE/PCB MOUNTING/WASHABLE



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SUPER-SUBMINIATURE/PCB MOUNTING/WASHABLE



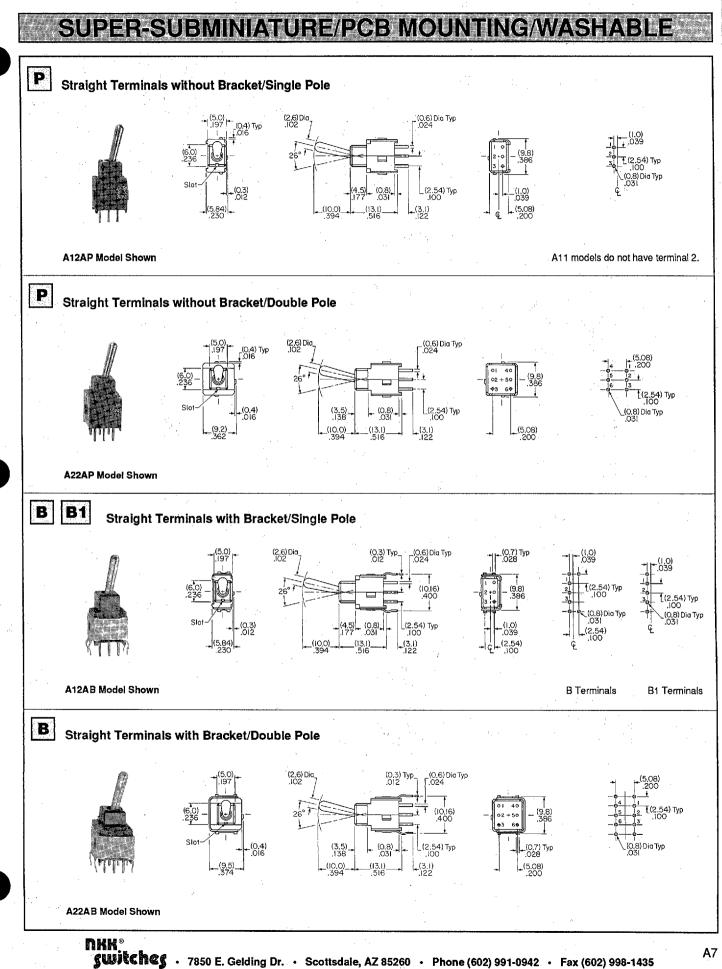


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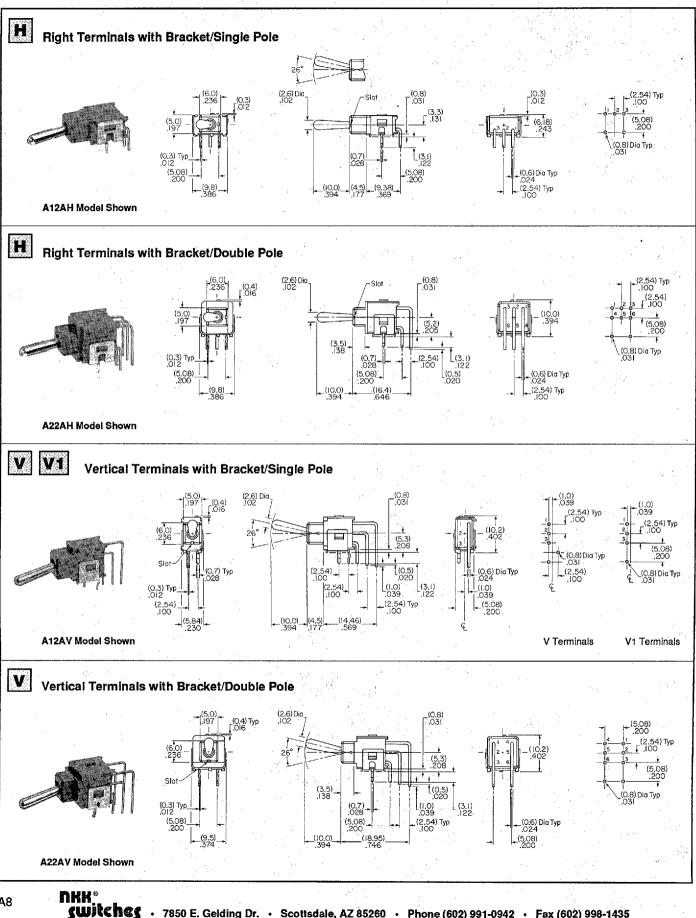
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SUPER-SUBMINIATURE/PCB MOUNTING/WASHABLE -25-13 **DISTINCTIVE FEATURES** Super-subminiature size (1/3 size of Series M switches) saves space on PC boards. 's first to be approved by International Electrotechnical Commission's Quality Assessment System Totally sealed body prevents contact contamination, allows time- and money-saving automated wave soldering and washing. Patented Sliding Twin Crossbar (STC) mechanism provides unequalled logiclevel reliability and smoother, positive detent actuation.

Molded-in, epoxy sealed terminals lock out flux, solvents, and other contaminants. _

D



.100" x .100" terminal spacing con- _ forms to standard PC board grid spacing.

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NHE SERIES A SWITCHES

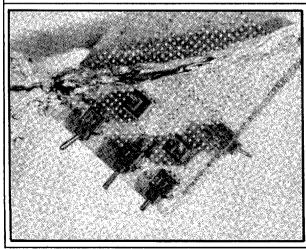
SUPER-SUBMINIATURE/PCB MOUNTING/WASHABLE

GENERAL SPECIFICATIONS

Electrical Capacity: (Resistive Load)	0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
Contact Resistance:	50 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 500V DC
Dielectric Strength:	500V AC minimum
Mechanical Life:	Toggles & Rockers: 100,000 operations minimum for ON-NONE-ON & ON-OFF-ON 50,000 operations minimum for other circuits Pushbuttons: 50,000 operations minimum
Electrical Life:	50,000 operations minimum
Ambient Temp Range:	-10ºC through +85ºC (+14ºF through +185ºF)
	Optional low temperature lubricant available
Toggle Angle of Throw:	26°
Rocker Angle of Throw:	26°
Pushbutton Travel:	Pretravel 0.7mm (.028") Overtravel 0.4mm (.016") Total 1.1mm (.043")
Nominal Operating Force:	Toggles A & E & K w/Long Paddle: 150g (momentary); 120g (maintained) Toggles J & H & K w/Short Paddle: 278g (momentary); 188g (maintained) Rockers w/Actuators K & K1: 253g (momentary); 206g (maintained) Pushbuttons: 260g

MATERIALS & FINISHES	
Toggle/Rocker Actuator	Nickel plated brass
Pushbutton Plunger	Polyacetal
Case Housing	Glass fiber reinforced polyamide
Support Bracket	Tin plated phosphor bronze
Movable Contact	Phosphor bronze with gold plating over silver plating
Stationary Contacts	Brass with gold plating over nickel undercoating

SEALED FOR WASHABILITY



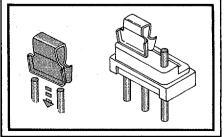
NKK®

Sealed body construction permits Series A switches to be subjected to timeand money-saving automated soldering techniques. As a result, they can be safely cleaned of flux without fear of compromising operating characteristics.

STC CONTACT MECHANISM

NKK's patented, award-winning STC contact mechanism offers benefits unavailable in conventional mechanisms. For example, movable twin contact surfaces pinch the stationary contacts to provide increased contact stability and unparalleled logic-level reliability.

Continued reliability is assured since the gold-plated contacts are wiped clean with each actuation. Furthermore, if one side of the twin contacts should fail to conduct, the other side functions as a backup, or fail-safe path for the current. The combination of rounded movable and stationary contacts provides smooth contact feel previously unavailable in sliding contact type mechanisms.



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