

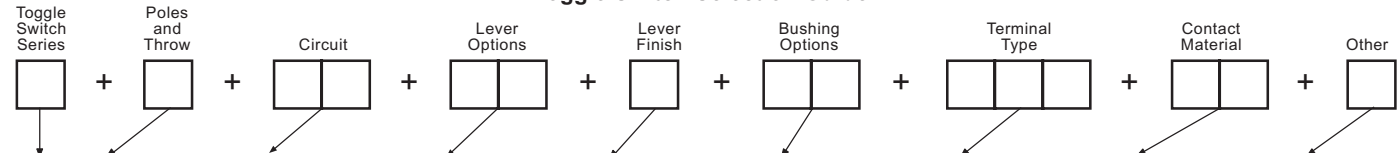
**Ordering Table — Standard Toggle Switches**

**HOW TO ORDER YOUR DESIGN** (Bold Face Type indicates items normally in Distributor Stock)

Following the table from left to right, the designer is able to specify the options wanted. The options are described and illustrated on pages 24-31. Refer to page 57 for mounting hardware.

To determine a part number select the options desired and fill in the boxes in the selection guides illustrated below.

**Toggle Switch Selection Guide**



Series	Poles and Throw		Circuits <sup>10</sup>				Lever Options and Finishes				Bushing Options		Terminal Options <sup>7</sup>		Contact Material		Other Option	
	No.	Code	Keyway			Code	Type	Code	Finish	Code	Type	Code	Type	Code	Type	Code	Type	Code
A	SPDT	1			POS. "C"		Lever Lock K Bushing Only	K1	Bright Chrome <sup>14</sup>	1	Splashproof Lever <sup>9</sup> & Bushing Seal	CW	Right Angle PC <sup>11</sup>	A	Gold/Nickel/Brass	B	Epoxy Sealed <sup>7</sup> Terminals	
	DPDT	2	ON	OFF	ON	21	.840 Bat	L0	Stain Chrome	2	Splashproof <sup>9</sup> Lever Seal Only	CX	Vertical PC .100 Spacing	AV	Gold/Nickel/Silver	G	Anti-Rotation	P
	3PDT	3	ON	NONE	ON	23	.640 Bat	L1	Black <sup>1</sup>	3	.280 Threaded	D	Vertical PC .150 Spacing	AV2	Coin Silver	Q	Anti-Jam	
	4PDT	4	ON	NONE	ON*	26	Long Mod Cap Short Mod Cap	L3	Black Nylon <sup>8</sup>	4	.280 Smooth <sup>2</sup>	D9	Printed Circuit Terminals	C		L		
								L4	Red Nylon <sup>8</sup>	5	.350 Flatted With Shoulder	H3	Right Angle <sup>9</sup> Same Throw	R				
								M	White Nylon <sup>8</sup>	6	.350 Keyway With Shoulder	K	Right Angle <sup>9</sup> Opposite Throw	R2				
								P1			Locking K1 Lever Only	K	PC & Support <sup>6</sup>	V30				
								P3			15/32 Dia. <sup>12</sup>	T	PC & Support <sup>6</sup>	V40				
								P4			Splashproof Lever <sup>12</sup> 15/32 & Panel Seal	TW	PC & Support <sup>6</sup>	V60				
								S			15/32 Splashproof <sup>12</sup> Lever Seal Only	TX	PC & Support <sup>6</sup>	V70				
								T			.350 Threaded	Y	.750 Wire Wrap	W				
				.437 Threaded (With P3 Only)	Y5	.964 Wire Wrap	W1											
				.350 Smooth	Y9	.425 Wire Wrap	W3											
						1.062 Wire Wrap	W4											
						Solder Lugs	Z											
						Quick Connect	Z3											

\*Momentary Contact

- <sup>1</sup> Available on S, M and P3 only.
- <sup>2</sup> Add .070 to lever length when using these bushings.
- <sup>3</sup> Available with S, M, L0, L1, L2, L3, L4 lever options. Consult factory for availability.
- <sup>4</sup> Standard on P1, P3, P4 and K1 lever options. Available on all other levers except T & T1.
- <sup>5</sup> These circuits are **NOT** available with the following 3 and 4 pole options: A, AV, AV2, V30, V40, V60 and V70.
- <sup>6</sup> 1 and 2 pole only.
- <sup>7</sup> Epoxy seal standard on all terminal options.

- <sup>8</sup> Available only with L3 and L4 levers.
- <sup>9</sup> Available in 1 pole only.
- <sup>10</sup> See page 58 for construction detail, wiring and electrical diagrams.
- <sup>11</sup> 1, 2 and 3 pole only.
- <sup>12</sup> Available on T or T1 lever options only.
- <sup>13</sup> Available on T, TW, and TX bushing options. (Bright chrome only.)
- <sup>14</sup> Not available on K1 lever.
- <sup>15</sup> Same as B, G and Q respectively except terminals brass with tin nickel alloy over nickel plate. Consult plant for availability.

**EXAMPLES:**

**A232L01YW1B** = DPDT toggle switch with an ON-ON-ON circuit, .840" long lever in a bright chrome finish, .350 threaded bushing, .964" long wire wrap terminals, gold/brass contacts and epoxy sealed terminals.

**SPECIFICATIONS:**

**Contact Ratings —**

Letter codes G and Q — 6 amp at 125 VAC, 3 amp @ 250 VAC (U.L. recognized, CSA certified) or 6 amp at 28 VDC resistive.

Letter codes B and G — 0.5. volt-amp (VA) maximum @ 28 V maximum (AC or DC).

**Life Under Load** — 60,000 make-and-break cycles — resistive load only.

**Initial Contact Resistance** — 10 milliohms maximum 3 VDC, 100 ma for both silver and gold plated contacts.

**Insulation Resistance** — 1 & 2 pole —1,000 megohms, min.  
3 & 4 pole —1,000 megohms, min.

**Dielectric Strength** — 1,000 volts rms at sea level.

**Bushing Strength** — 12 pound-inches without physical damage to switch.

**Weight (including hardware)** — SP 0.19 oz.; DP 0.23 oz.; 3-pole 0.28 oz.; 4-pole 0.32 oz.

**MATERIALS:**

**Base (body)** — 1- and 2-pole —Diallyl Phthalate (DAP).  
3- and 4-pole — high strength phenolic.

**Lever (toggle)** — Brass, chrome plated.

**Flat Lever** — Brass, satin chrome finish.

**Locking lever cap** — Anodized aluminum.

**Bushing** — Brass, nickel plated.

**Clamp (frame)** — Stainless steel.

**Support brackets** — Steel, tin plated.

**Switching Contacts and Rockers** —

Letter Code B — gold/nickel/brass

Letter Code G — gold/nickel/silver

Letter Code Q — Coin silver

**Center Terminal**

Letter Codes B, G — Gold flash/nickel/brass

Letter Code Q — Silver plated brass.

**Hardware** — See page 55-57.

**Toggle Switches — Base Dimensions and Lever Options**

**APPROXIMATE BASE DIMENSIONS**



**TOGGLE LEVER OPTIONS**



**Toggle Lever Options — Contd.**

<p><b>M</b> Short (.200")</p>	<p><b>P1</b> Flatted (.840")</p>	<p><b>P3</b> Flatted (.448")</p>	<p><b>P4</b> Flatted (.250")</p>
<p><b>S</b> Std. Bat (.410")</p>	<p><b>T</b> Large Toggle</p>	<p><b>T1</b> Large Toggle</p>	

**BUSHING OPTIONS**

<p><b>CW</b> Splashproof Sealed Lever and Panel Seal</p> <p>CW = Flatted bushing</p>	<p><b>D D9</b> Threaded Smooth (No Keyway)</p>	
<p><b>H</b> High Torque Flatted with Shoulder</p> <p>1/4-40 N0 MFG. OPTION RELIEF OR IMPERF. THD.</p>	<p><b>H3</b> High Torque</p> <p>.228 .225 OVER FLAT</p>	<p><b>P</b> Anti-Rotation</p>
<p><b>TW</b> Splashproof Sealed Lever and Panel Seal</p>	<p><b>OX Y Y9</b> Threaded with Lever Seal Threaded Smooth (No Keyway)</p>	<p><b>Y5</b> Long Bushing (.437")</p>

**K** Refer to K1 lever drawing for dimensions.

**T&TX** Refer to T or T1 lever drawing for dimensions.

Note: For hardware refer to pages 55-57.

<p><b>C Printed CIRCUIT</b></p>	<p><b>W Wire-Wrap</b></p>	<p><b>W1 Wire-Wrap</b></p>	<p><b>W3 Wire-Wrap</b></p>	<p><b>W4 Wire-Wrap</b></p>	<p><b>Z STANDARD</b></p>	<p><b>Z3 Quick CONNECT</b></p> <p>Mating Receptacle from AMP SPECIAL IND., P.O. Box 984, Paoli, Pa. 19301 Amp P/N single piece 61454 series, strip from 60900</p>
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NOTE: Wire-Wrap is a registered trademark of the Gardner-Denver Company.

**TERMINATION/MOUNTING OPTIONS**

<p><b>A</b></p>	<p><b>One Pole</b></p>
<p><b>A</b></p>	<p><b>Two Pole</b></p> <p><b>Right Angle P.C. Terminal</b></p>
<p><b>A</b></p>	<p><b>Three Pole</b></p>
<p><b>R</b></p> <p>KEYWAY .040 WIDE X .0285 DEEP</p>	<p><b>One Pole</b></p> <p>Contacts Make on Opposite Side Toggle Thrown</p>
<p><b>R2</b></p> <p>KEYWAY .040 WIDE X .0285 DEEP</p>	<p><b>One Pole</b></p> <p>Contacts Make on Opposite Side Toggle Thrown</p>

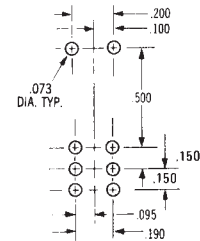
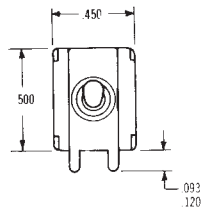
**Termination/Mounting Options**

<b>AV1</b>	w/.100" terminal spacing
<b>AV2</b>	w/.150" terminal spacing (pictured below)



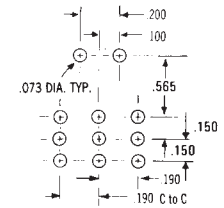
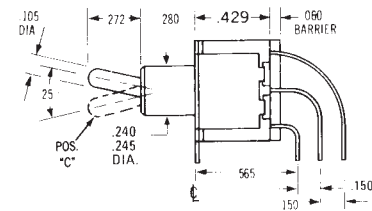
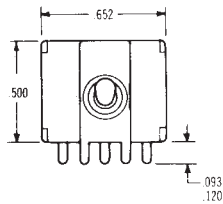
**ONE POLE** Epoxy sealed P.C. terminals are supplied as standard for these options.

<b>AV1</b>	w/.100" terminal spacing
<b>AV2</b>	w/.150" terminal spacing (pictured below)



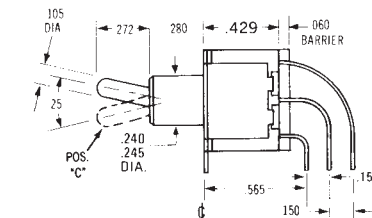
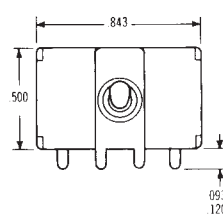
**TWO POLE** Epoxy sealed P.C. terminals are supplied as standard for these options.

<b>AV</b>	w/.100" terminal spacing
<b>AV2</b>	w/.150" terminal spacing (pictured below)



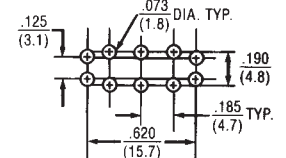
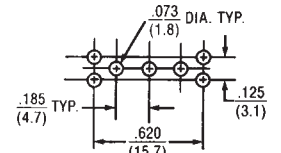
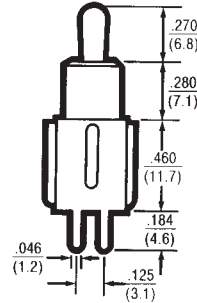
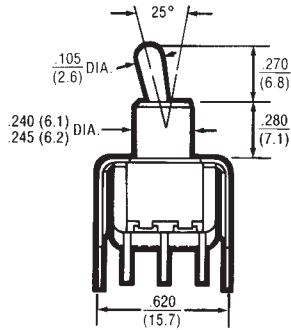
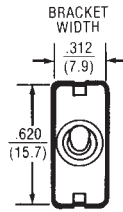
**THREE POLE** Epoxy sealed P.C. terminals are supplied as standard for these options.

<b>AV</b>	w/.100" terminal spacing
<b>AV2</b>	w/.150" terminal spacing (pictured below)



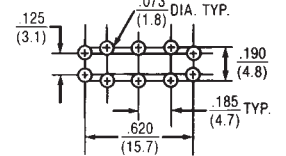
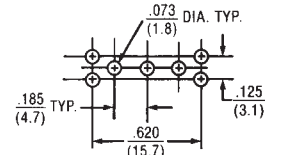
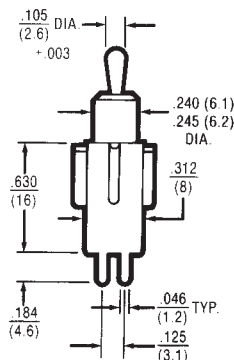
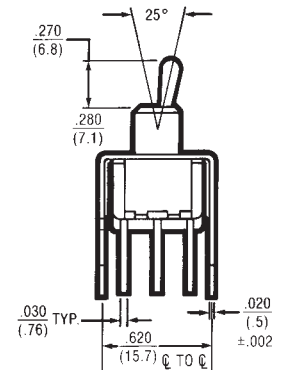
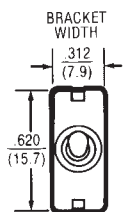
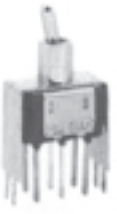
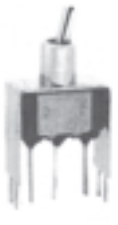
**FOUR POLE** Epoxy sealed P.C. terminals are supplied as standard for these options.

**V30**



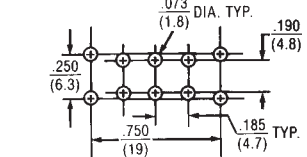
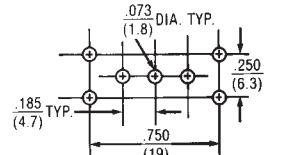
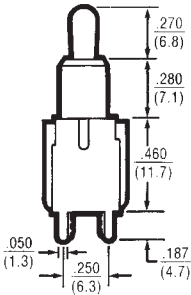
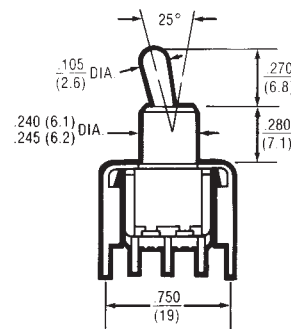
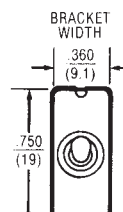
**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**V40**



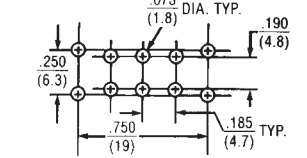
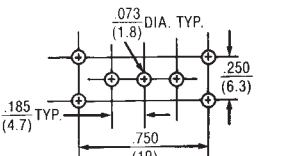
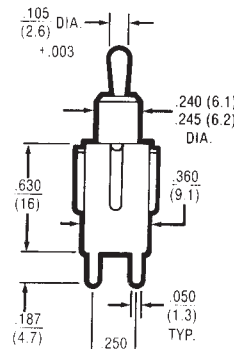
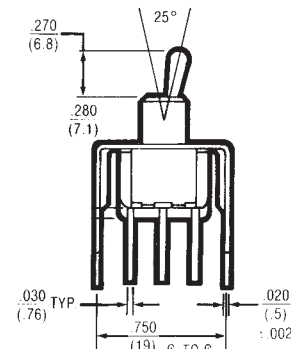
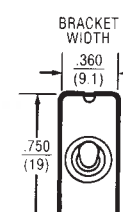
**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**V60**



**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**V70**



**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**



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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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