

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 ¹⁰				Lever Options and Finishes				Bushing Options		Terminal Options ⁷		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 ¹⁴	1	Splashproof Lever ⁹ & Bushing Seal ¹¹	CW	Right Angle PC ¹¹	A	Gold/Nickel/Brass	B	Epoxy Sealed ⁷ Terminals	
	DPDT	2	ON	OFF	ON	21	.840 Bat	L0	Stain Chrome	2	Splashproof ⁹ 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 ¹	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 ⁸	4	.280 Smooth ²	D9	Printed Circuit Terminals	C		L		
								L4	Red Nylon ⁸	5	.350 Flatted With Shoulder	H3	Right Angle ⁹ Same Throw	R				
								M	White Nylon ⁸	6	.350 Keyway With Shoulder	K	Right Angle ⁹ Opposite Throw	R2				
								P1			Locking K1 Lever Only	K	PC & Support ⁶	V30				
								P3			15/32 Dia. ¹²	T	PC & Support ⁶	V40				
								P4			Splashproof Lever ¹² 15/32 & Panel Seal	TW	PC & Support ⁶	V60				
								S			15/32 Splashproof ¹² Lever Seal Only	TX	PC & Support ⁶	V70				
								T			.350 Threaded	Y	.750 Wire Wrap	W				
				.410 Bat	S	.964 Wire Wrap	W1											
				.468 Large ¹³	T1	.425 Wire Wrap	W3											
				.687 Large ¹³	T	1.062 Wire Wrap	W4											
						Solder Lugs	Z											
						Quick Connect	Z3											

*Momentary Contact

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

- ⁸ Available only with L3 and L4 levers.
- ⁹ Available in 1 pole only.
- ¹⁰ See page 58 for construction detail, wiring and electrical diagrams.
- ¹¹ 1, 2 and 3 pole only.
- ¹² Available on T or T1 lever options only.
- ¹³ Available on T, TW, and TX bushing options. (Bright chrome only.)
- ¹⁴ Not available on K1 lever.
- ¹⁵ 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>M Short (.200")</p>	<p>P1 Flatted (.840")</p>	<p>P3 Flatted (.448")</p>	<p>P4 Flatted (.250")</p>
<p>S Std. Bat (.410")</p>	<p>T Large Toggle</p>	<p>T1 Large Toggle</p>	

BUSHING OPTIONS

<p>CW Splashproof Sealed Lever and Panel Seal</p> <p>CW = Flatted bushing</p>	<p>D D9 Threaded Smooth (No Keyway)</p>	
<p>H High Torque Flatted with Shoulder</p> <p>1/4-40 N0 MFG. OPTION RELIEF OR IMPERF. THD.</p>	<p>H3 High Torque</p> <p>.228 .225 OVER FLAT</p>	<p>P Anti-Rotation</p>
<p>TW Splashproof Sealed Lever and Panel Seal</p>	<p>OX Y Y9 Threaded with Lever Seal Threaded Smooth (No Keyway)</p>	<p>Y5 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>C Printed CIRCUIT</p>	<p>W Wire-Wrap</p>	<p>W1 Wire-Wrap</p>	<p>W3 Wire-Wrap</p>	<p>W4 Wire-Wrap</p>	<p>Z STANDARD</p>	<p>Z3 Quick CONNECT</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

A

One Pole

A

Two Pole

Right Angle P.C. Terminal
EPOXY SEAL STD. FOR THIS OPTION
-.050 WIDE

A

Three Pole

R

One Pole

Contacts Make on Opposite Side Toggle Thrown

R2

One Pole

Contacts Make on Opposite Side Toggle Thrown

Termination/Mounting Options

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



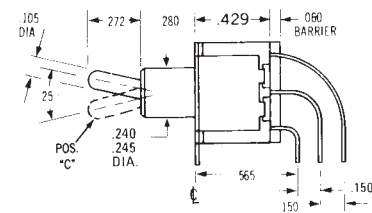
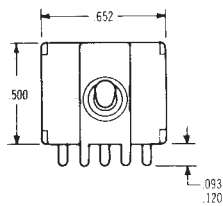
ONE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

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



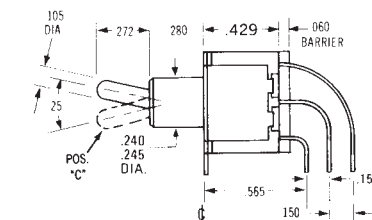
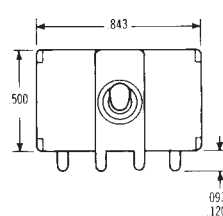
TWO POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

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



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

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



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

V30



ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

V40



ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

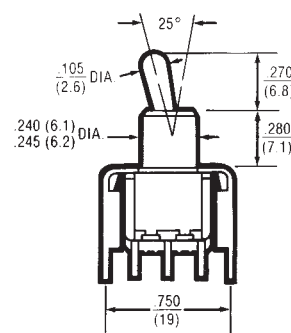
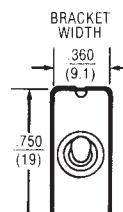
V60



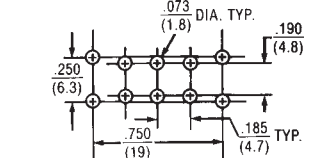
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

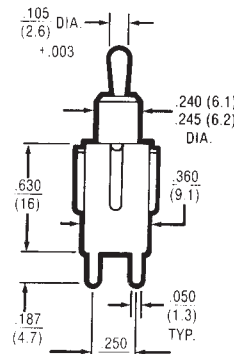
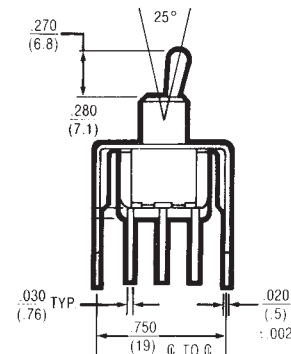
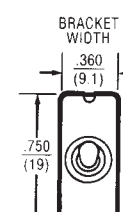
V70



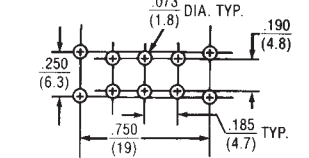
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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