SPECIFICATIONS

- Originally designed to meet the requirements of MIL-S-83731 (see page 54 for Test Specifications).
- Sealed lever type with panel seal and terminal seal.
- Flatted bushing on sealed lever type.
- Solder lug or printed circuit terminals.
- Epoxy sealed terminals.
- One and two pole circuits.
- High electrical/mechanical reliability.
- Dry circuit current carrying ability.
- Toggle lever throw 25° ±5°.

MATERIAL

- **Base (body)** — Diallyl Phthalate.
- **Lever** — Brass, bright chrome plated.
- **Bushing** — Brass, nickel plated.
  Frame — Stainless steel.
- **Switching Contacts and Rockers** — 50 millionths gold over silver.
- **Center Terminal** — 50 millionths gold over silver.
- **Hardware** — Refer to hardware listing on page 57.

CURRENT RATINGS

Current Capacity in Amperes — Per Pole		
28 V DC	115 V AC 400 Hz	125 V AC 60 Hz
LAMP LOAD		
1	1	1
RESISTIVE LOAD		
5	5	5
INDUCTIVE LOAD		
2	2	2

LOGIC LEVEL

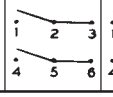
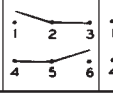
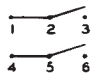
10 mA @ 5 V Max. (AC or DC)

SWITCH SELECTION TABLE — SEALED

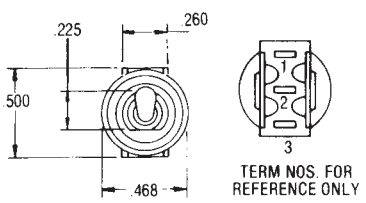
Circuit With Lever			Catalog Number	
UP Position	CENTER Position	DOWN Position (Flat)	Solder Lug Terminals	Printed Circuit Terminals
ONE POLE				
ON	OFF	ON	A121S1CWZG-M8	A121S1CWCG-M8
ON	NONE	ON	A123S1CWZG-M8	A123S1CWCG-M8
ON	NONE	ON*	A126S1CWZG-M8	A126S1CWCG-M8
ON*	OFF	ON*	A127S1CWZG-M8	A127S1CWCG-M8
ON	OFF	ON*	A131S1CWZG-M8	A131S1CWCG-M8
NONE	ON	ON*	A137S1CWZG-M8	A137S1CWCG-M8
TWO POLE				
ON	OFF	ON	A221S1CWZG-M8	A221S1CWCG-M8
ON	NONE	ON	A223S1CWZG-M8	A223S1CWCG-M8
ON	NONE	ON*	A226S1CWZG-M8	A226S1CWCG-M8
ON*	OFF	ON*	A227S1CWZG-M8	A227S1CWCG-M8
ON	OFF	ON*	A231S1CWZG-M8	A231S1CWCG-M8
ON	ON	ON	A232S1CWZG-M8	A232S1CWCG-M8
ON	ON	ON*	A233S1CWZG-M8	A233S1CWCG-M8
NONE	ON	ON*	A234S1CWZG-M8	A234S1CWCG-M8
ON*	ON	ON*	A235S1CWZG-M8	A235S1CWCG-M8

* Momentary Contact

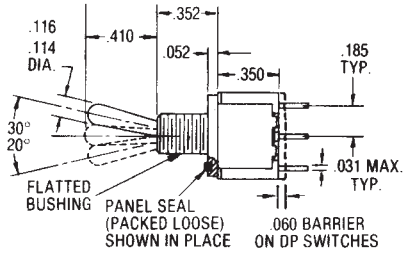
"ON-ON-ON" CIRCUIT DIAGRAM

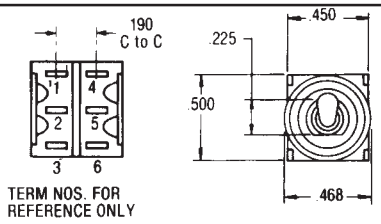
No. of Poles	Up Position	Center Maintained Position	Down Position (Keyway)
2			

APPROXIMATE DIMENSIONS



SINGLE POLE

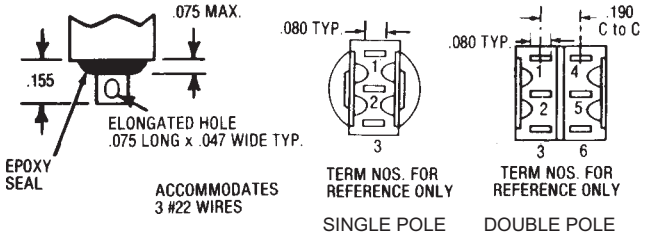




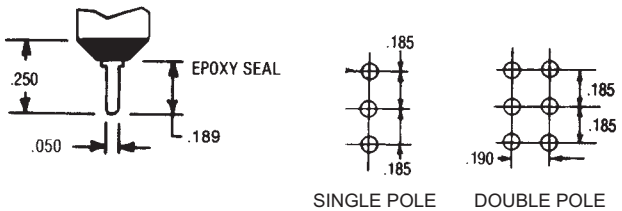
DOUBLE POLE

TERMINAL DIMENSIONS

SOLDERING TERMINALS



PRINTED CIRCUIT TERMINALS



Commercial Miniature Leverlock Toggle Switches — Unsealed

SPECIFICATIONS

- One hole mounting.
- Originally designed to meet the requirements of MIL-S-83731 (see page 54 for Test Specifications).
- Slow make, slow break contact action.
- High electrical/mechanical reliability.
- Toggle lever throw 25° ±5°.
- Solder lug or printed circuit terminals.
- One and two pole circuits.
- Dry circuit current carrying ability.
- Mounting hardware furnished unassembled

MATERIAL

- **Base (body)** — Diallyl Phthalate.
- **Locking lever** — Brass, nickel plated. **Cap** — natural adnodized aluminum supplied as standard; other colors such as red, blue, gold, black and green are also available.
- **Bushing** — Brass, nickel plated. **Frame** — Stainless steel.
- **Switching Contacts and Rockers** — 50 millionths gold over silver.
- **Center Terminal** — 50 millionths gold over silver.
- **Hardware** — Refer to hardware listing on page 57.

CURRENT RATINGS

Current Capacity in Amperes — Per Pole		
28 V DC	115 V AC 400 Hz	125 V AC 60 Hz
LAMP LOAD		
1	1	1
RESISTIVE LOAD		
5	5	5
INDUCTIVE LOAD		
2	2	2

LOGIC LEVEL

10 mA @ 5 V Max. (AC or DC)

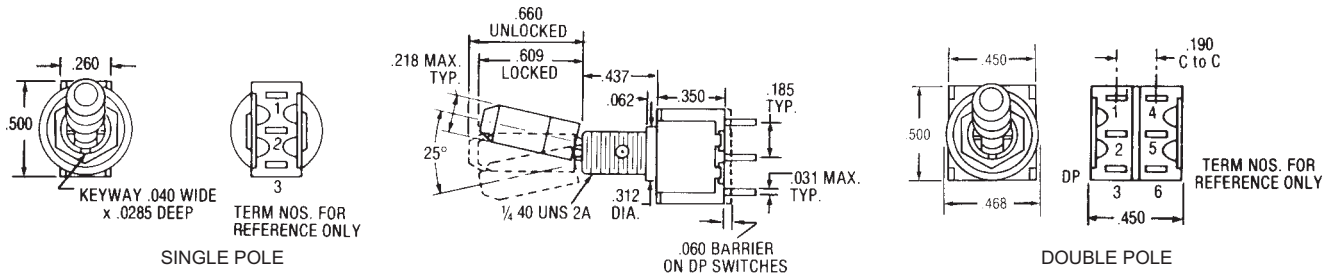
LEVER LOCK SELECTION TABLE

Standard Cap Style	Circuit With Lever: UP Position	CENTER Position	DOWN Position (Keyway)	Lever Lock Bushing Style	Catalog Number: Solder Lug Terminals	Printed Circuit Terminals
	ONE POLE					
SPDT 	ON ▶	◀ OFF ▶	◀ ON	1	A121K12KZG-M8	A121K12KCG-M8
	ON ▶	NONE	◀ ON	2	A123K12KZG-M8	A123K12KCG-M8
	ON ▶	NONE	ON*	3	A126K12KZG-M8	A126K12KCG-M8
	ON*	◀ OFF ▶	ON*	4	A127K12KZG-M8	A127K12KCG-M8
	ON ▶	◀ OFF ▶	ON*	5	A131K12KZG-M8	A131K12KCG-M8
	TWO POLE					
DPDT 	ON ▶	◀ OFF ▶	◀ ON	1	A221K12KZG-M8	A221K12KCG-M8
	ON ▶	NONE	◀ ON	2	A223K12KZG-M8	A223K12KCG-M8
	ON ▶	NONE	ON*	3	A226K12KZG-M8	A226K12KCG-M8
	ON*	◀ OFF ▶	ON*	4	A227K12KZG-M8	A227K12KCG-M8
	ON ▶	◀ OFF ▶	ON*	5	A231K12KZG-M8	A231K12KCG-M8
	ON ▶	◀ ON ▶	◀ ON	1	A232K12KZG-M8	A232K12KCG-M8

* Momentary Contact

▶ Indicates direction against which lever is locked.

APPROXIMATE DIMENSIONS (For terminal dimensions see page 49)

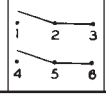
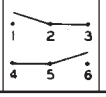
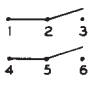


LEVER LOCK BUSHING STYLES

(The descriptive illustrations below are for pictorial representation only — keyway on right hand side)

STYLE 1	STYLE 2	STYLE 3	STYLE 4	STYLE 5
				
Locked In Three Positions	Locked Out Of Center Position	Locked Into Side Opposite Keyway — Momentary Keyway Side	Locked In Center Position — Momentary Either Side	Locked In Center Position — Momentary Keyway Side

"ON-ON-ON" CIRCUIT DIAGRAM

No. of Poles	Up Position	Center Maintained Position	Down Position (Keyway)
2			

Commercial Miniature Toggle Switches
Right Angle Mount (Vertical) P.C. Terminals

SPECIFICATIONS

- Originally designed to meet the requirements of MIL-S-83731 (see page 54 for Test Specifications).
- Sealed lever type with panel seal and terminal seal.
- Right angle mount (vertical) printed circuit terminals.
- Epoxy sealed printed circuit terminals.
- One and two pole circuits.
- High electrical/mechanical reliability.
- Dry circuit current carrying ability.
- Toggle lever throw 25° ±5°.

MATERIAL

- **Base (body)** — Diallyl Phthalate.
- **Lever** — Brass, bright chrome plated.
- **Bushing** — Brass, nickel plated.
  Frame — Stainless steel.
- **Switching Contacts and Rockers** — 50 millionths gold over silver.
- **Center Terminal** — 50 millionths gold over silver.
- **Hardware** — None required.

CURRENT RATINGS

Current Capacity in Amperes — Per Pole		
28 V DC	115 V AC 400 Hz	125 V AC 60 Hz
LAMP LOAD		
1	1	1
RESISTIVE LOAD		
5	5	5
INDUCTIVE LOAD		
2	2	2

LOGIC LEVEL

10 mA @ 5 V Max. (AC or DC)

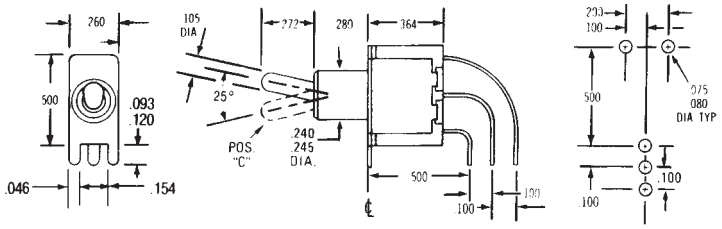
SWITCH SELECTION TABLE — SEALED

	Circuit With Lever In…			
	UP Position	CENTER Position	DOWN Position (Position C)	Catalog Number
 SPDT	ONE POLE			
	ON	OFF	ON	A121M1D9AVG-M8
	ON	NONE	ON	A123M1D9AVG-M8
	ON	NONE	ON*	A126M1D9AVG-M8
	ON*	OFF	ON*	A127M1D9AVG-M8
	ON	OFF	ON*	A131M1D9AVG-M8
	NONE	ON	ON*	A134M1D9AVG-M8
 DPDT	TWO POLE			
	ON	OFF	ON	A221M1D9AVG-M8
	ON	NONE	ON	A223M1D9AVG-M8
	ON	NONE	ON*	A226M1D9AVG-M8
	ON*	OFF	ON*	A227M1D9AVG-M8
	ON	OFF	ON*	A231M1D9AVG-M8
	ON	ON	ON	A232M1D9AVG-M8
	ON	ON	ON*	A233M1D9AVG-M8
	NONE	ON	ON*	A234M1D9AVG-M8
	ON*	ON	ON*	A235M1D9AVG-M8

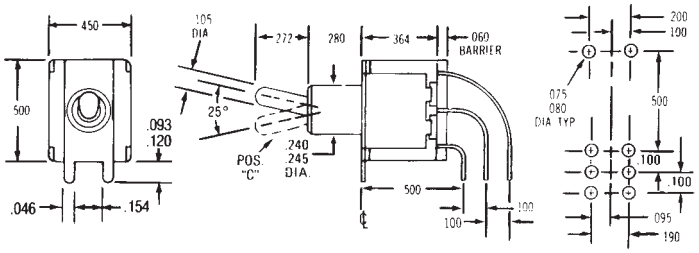
* Momentary Contact

APPROXIMATE DIMENSIONS

SPDT

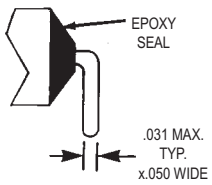


DPDT

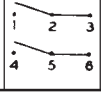
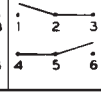
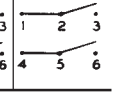


TERMINAL DIMENSIONS

Right Angle P.C. Terminal



"ON-ON-ON" CIRCUIT DIAGRAM

No. of Poles	Up Position	Center Maintained Position	Down Position (Position C)
2			

Commercial Miniature Toggle Switches
Right Angle Mount (Horizontal) P.C. Terminals

SPECIFICATIONS

- Originally designed to meet the requirements of MIL-S-83731 (see page 54 for Test Specifications).
- Sealed lever type with terminal seal.
- Right angle mount (horizontal) printed circuit terminals.
- Epoxy sealed printed circuit terminals.
- One and two pole circuits.
- High electrical/mechanical reliability.
- Dry circuit current carrying ability.
- Toggle lever throw 25° ±5°.

MATERIAL

- **Base (body)** — Diallyl Phthalate.
- **Lever** — Brass, bright chrome plated.
- **Bushing** — Brass, nickel plated.
  Frame — Stainless steel.
- **Switching Contacts and Rockers** — 50 millionths gold over silver.
- **Center Terminal** — 50 millionths gold over silver.
- **Hardware** — None required.

CURRENT RATINGS

Current Capacity in Amperes — Per Pole		
28 V DC	115 V AC 400 Hz	125 V AC 60 Hz
LAMP LOAD		
1	1	1
RESISTIVE LOAD		
5	5	5
INDUCTIVE LOAD		
2	2	2

LOGIC LEVEL

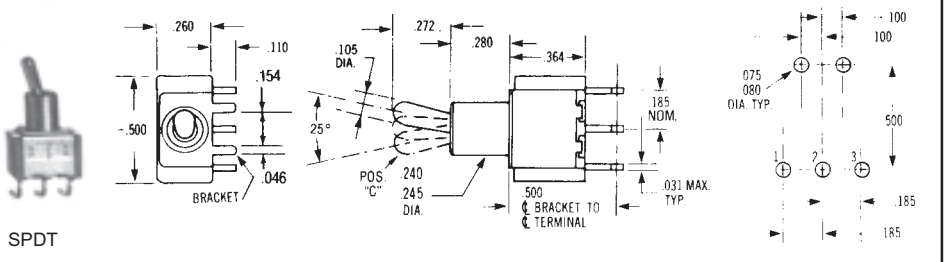
10 mA @ 5 V Max. (AC or DC)

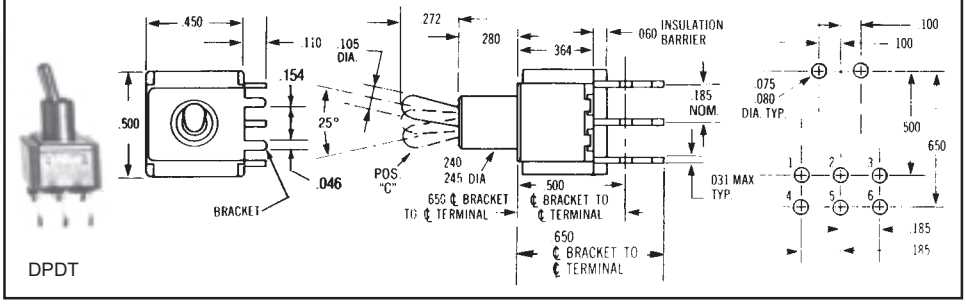
SWITCH SELECTION TABLE — SEALED

	Circuit With Lever In…			
	UP Position	CENTER Position	DOWN Position (Position C)	Catalog Number
 SPDT	ONE POLE			
	ON	OFF	ON	A121M1D9AG-M8
	ON	NONE	ON	A123M1D9AG-M8
	ON	NONE	ON*	A126M1D9AG-M8
	ON*	OFF	ON*	A127M1D9AG-M8
	ON	OFF	ON*	A131M1D9AG-M8
	NONE	ON	ON*	A134M1D9AG-M8
 DPDT	TWO POLE			
	ON	OFF	ON	A221M1D9AG-M8
	ON	NONE	ON	A223M1D9AG-M8
	ON	NONE	ON*	A226M1D9AG-M8
	ON*	OFF	ON*	A227M1D9AG-M8
	ON	OFF	ON*	A231M1D9AG-M8
	ON	ON	ON	A232M1D9AG-M8
	ON	ON	ON*	A233M1D9AG-M8
	NONE	ON	ON*	A234M1D9AG-M8
	ON*	ON	ON*	A235M1D9AG-M8

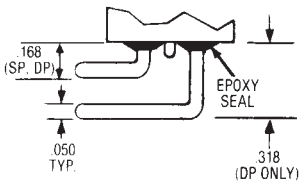
* Momentary Contact

APPROXIMATE DIMENSIONS

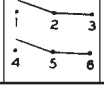
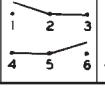




TERMINAL DIMENSIONS



"ON-ON-ON" CIRCUIT DIAGRAM

No. of Poles	Up Position	Center Maintained Position	Down Position (Position C)
2			

Commercial Miniature Toggle Switches – New Four Pole

SPECIFICATIONS

- Originally designed to meet the requirements of MIL-S-83731 (see page 54 for Test Specifications).
- Sealed lever type with panel seal and terminal seal.
- Flatted bushing on sealed lever type.
- Solder lug or printed circuit terminals.
- Epoxy sealed terminals.
- One and two pole circuits.
- High electrical/mechanical reliability.
- Dry circuit current carrying ability.
- Toggle lever throw 25° ±5°.

MATERIAL

- **Base (body)** — Diallyl Phthalate.
- **Lever** — Brass, bright chrome plated.
- **Locking Lever** — Brass, nickel plated. **Cap** — natural anodized aluminum supplied as standard; other colors such as red, blue, gold, black and green are also available.
- **Bushing** — Brass, nickel plated. **Frame** — Stainless steel.
- **Switching Contacts and Rockers** — 50 millionths gold over silver.
- **Center Terminal** — 50 millionths gold over silver.
- **Hardware** — Refer to hardware listing on page 57.

CURRENT RATINGS

Current Capacity in Amperes — Per Pole		
28 V DC	115 V AC 400 Hz	125 V AC 60 Hz
LAMP LOAD		
1	1	1
RESISTIVE LOAD		
5	5	5
INDUCTIVE LOAD		
2	2	2

LOGIC LEVEL

10 mA @ 5 V Max. (AC or DC)

SWITCH SELECTION TABLE — SEALED


4-PDT

Circuit With Lever In…			Catalog Number	
UP Position	CENTER Position	DOWN Position (Flat)	Solder Lug Terminals	Printed Circuit Terminals
ON	OFF	ON	A421S1CWZG-M8	A421S1CWCG-M8
ON	NONE	ON	A423S1CWZG-M8	A423S1CWCG-M8
ON	NONE	ON*	A426S1CWZG-M8	A426S1CWCG-M8
ON*	OFF	ON*	A427S1CWZG-M8	A427S1CWCG-M8
ON	OFF	ON*	A431S1CWZG-M8	A431S1CWCG-M8
ON	ON	ON	A432S1CWZG-M8	A432S1CWCG-M8
ON	ON	ON*	A433S1CWZG-M8	A433S1CWCG-M8
NONE	ON	ON*	A434S1CWZG-M8	A434S1CWCG-M8
ON*	ON	ON*	A435S1CWZG-M8	A435S1CWCG-M8

* Momentary Contact

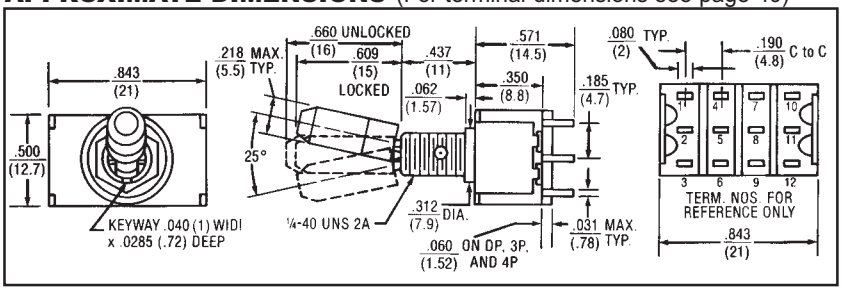
LEVER LOCK SELECTION TABLE — UNSEALED


FOUR POLE

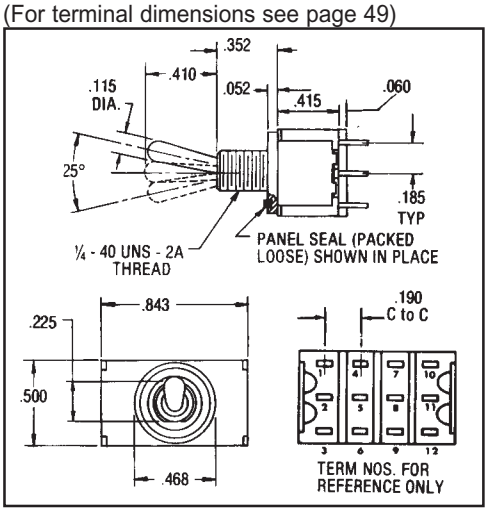
Standard Cap Style	Circuit With Lever In…				Catalog Number	
	UP Position	CENTER Position	DOWN Position (Keyway)	Lever Lock Bushing Style	Solder Lug Terminals	Printed Circuit Terminals
	ON ▶	◀ OFF ▶	◀ ON	1	A421K12KZG-M8	A421K12KCG-M8
	ON ▶	NONE	◀ ON	2	A423K12KZG-M8	A423K12KCG-M8
	ON ▶	NONE	ON*	3	A426K12KZG-M8	A426K12KCG-M8
	ON*	◀ OFF ▶	ON*	4	A427K12KZG-M8	A427K12KCG-M8
	ON ▶	◀ OFF ▶	ON*	5	A431K12KZG-M8	A431K12KCG-M8
	ON ▶	◀ ON ▶	◀ ON	1	A432K12KZG-M8	A432K12KCG-M8

* Momentary Contact
▶ Indicates direction against which lever is locked.

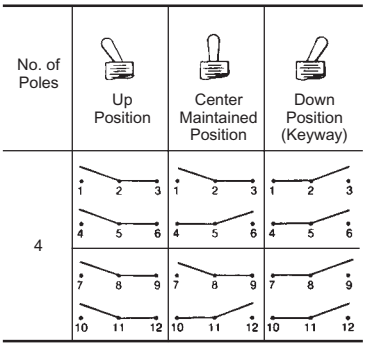
APPROXIMATE DIMENSIONS (For terminal dimensions see page 49)



APPROXIMATE DIMENSIONS (For terminal dimensions see page 49)



"ON-ON-ON" CIRCUIT DIAGRAM



NOTE: FOR LEVER LOCK BUSHING STYLES SEE PAGE 50.

"A" Series Originally Designed To Meet the Following MIL Specifications

Test Requirement	MIL Specification
1. Strength of Terminal	1 lb. — solder lug
2. Strength of Actuating Lever Pivot and Stop	10 lbs. & 8 lbs. throughout range
3. Strength of Mounting Means	15 lbs. in. torque on bushing
4. Dielectric (Sea Level) Indication Dielectric (Altitude)	1000 VAC Group C 750 VAC after electrical endurance. 500 μA max. leakage
5. Contact Voltage Drop	2.5 millivolt initial 5.0 millivolt after mechanical endurance @ 2-6 VDC 0.1 amp.
6. Temperature Rise	50°C rise @ rated resistance after endurance test current
7. Short Circuit	10 operations make and carry 100 amps resistive load @ lowest DC volts
8. Mechanical Life	20K operations at specified high and low temperatures
9. Electrical Endurance	10K operations at specified high and low temperatures
10. Overload	50 operations @ 150% of rated resistive load
11. A) Electrical Endurance at Altitude	No requirement
B) Electrical Endurance at Sea Level	10K operations resistive load @ room temperature 10K operations inductive load @ room temperature 10K operations lamp load @ room temperature Performed on different test samples
12. Vibration	Method 204 of MIL-STD-202, test condition A .06 D.A. or 10 G's 10-500 Hz 10 usec. max. chatter
13. Shock	Fuse-method 213 or MIL-STD @75 G's 10 usec. max, chatter
14. Salt Spray Test Upon Completion	48 hours — method 101 of MIL-STD-202, test condition B 10 operations resistive load (toggle sealed switches only)
15. Moisture Resistance Test Upon Completion	Method 106 of MIL-STD-202 100 VDC potential between current carrying parts and panel
16. Sand & Dust	Method 110 of MIL-STD-202, test condition B 6 hours @ 23°C 2.5K operations mechanical life (toggle sealed switches only)
17. Explosion	MIL-STD-202 method 109, maximum rated DC inductive load (toggle sealed switches only)
18. Sealing	Toggle seal — 5 operations under 0.5 inches of H_2O above top of bushing
19. A) Toggle Seal B) Bushing Seal	No requirement
20. Temperature Operation	Mechanical life, -25°C to +71°C
21. Life Low Cur. Level	No requirement
22. Fungus	No requirement
23. Intermediate Current	10K operations, 50 milliamps @ 10 VDC resistive load @ 20,000 feet altitude @ room temperature
24. Thermal Shock	Method 107 of MIL-STD-202 test condition A 5 cycles @ -55°C/+85°C

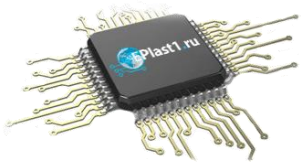
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- 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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- 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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