

Toggle Switches

Sub-Miniature - Sealed



Specifications:

Contact Rating : 0.4 volt-amps (VA) maximum at 20V maximum (AC or DC).
Mechanical Life : 30,000 make-and-break cycles.
Contact Resistance : 20m Ω maximum initial at 2 to 4V dc.
100mA for both silver and gold plated contacts.

Minimum Insulation Resistance : 1,000M Ω .
Dielectric Strength : 1,000VRMS at sea level.
Operating Temperature : -30°C to 85°C.

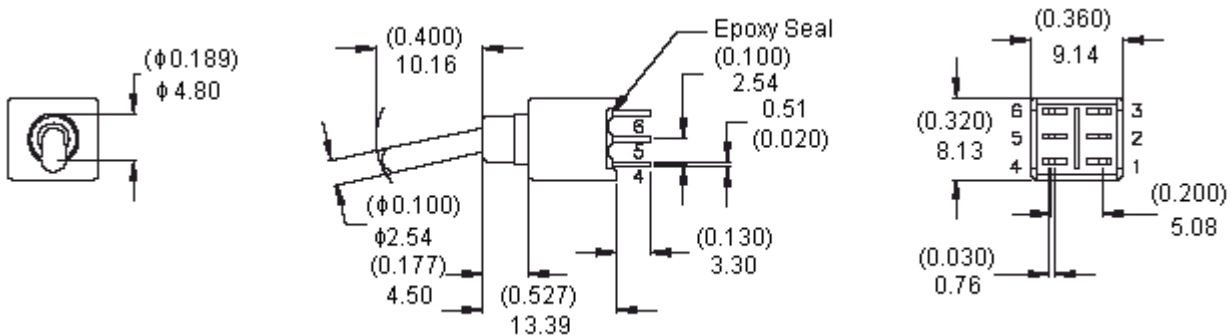
Materials:

Case and Bushing : Glass filled nylon 66, heat stabilized.
Actuator : Brass, chrome plated, internal, O-ring seal. Standard for all actuators.
Switch Support : Brass, tin plated.
Contacts/Terminals : Copper alloy, with gold plated.

Pole Option

M2RE

DPDT



Dimensions : Millimetres (Inches)

Toggle Switches

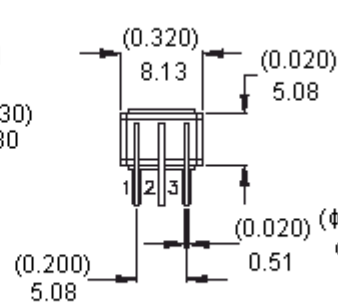
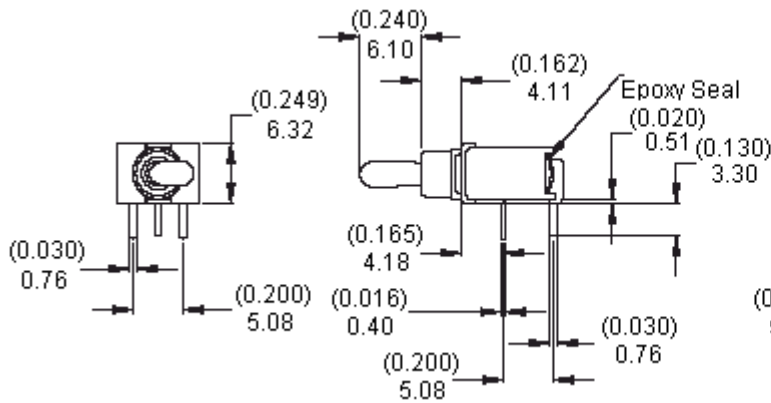
Sub-Miniature - Sealed



Pole Option

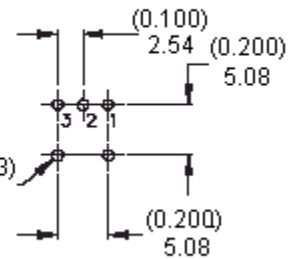
M6RE

SPDT



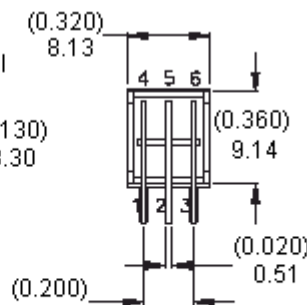
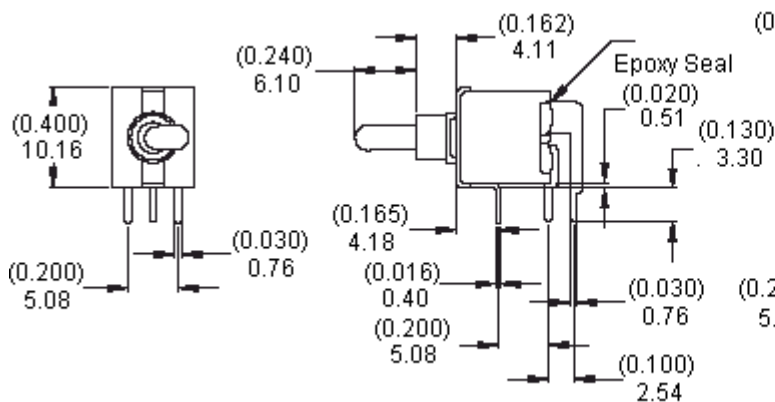
Section A - A
Terminal
Numbers for
Reference Only

PCB Mounting



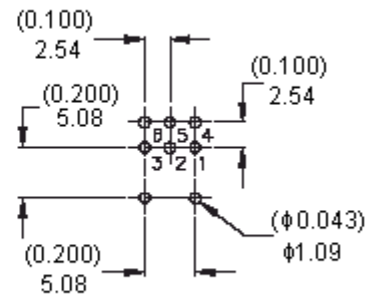
Dimensions : Millimetres (Inches)

DPDT



Section A - A
Terminal
Numbers for
Reference Only

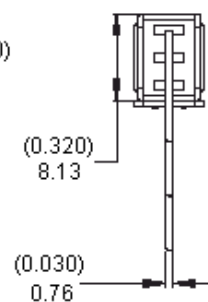
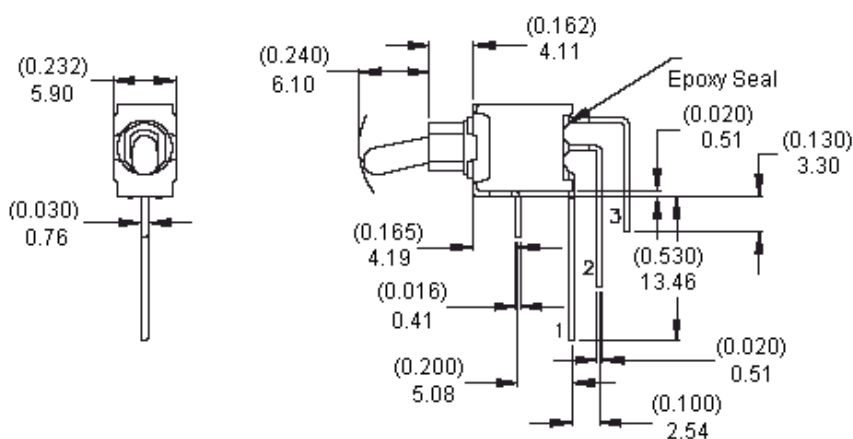
PCB Mounting



Dimensions : Millimetres (Inches)

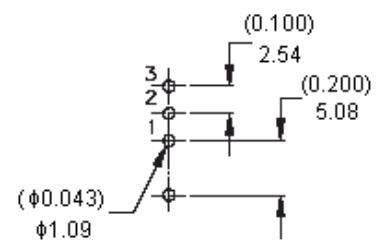
M7RE

SPDT



Section A - A
Terminal
Numbers for
Reference Only

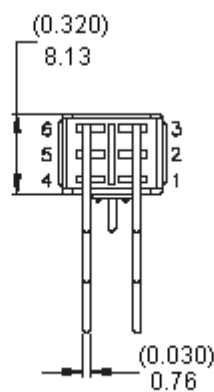
PCB Mounting



Dimensions : Millimetres (Inches)



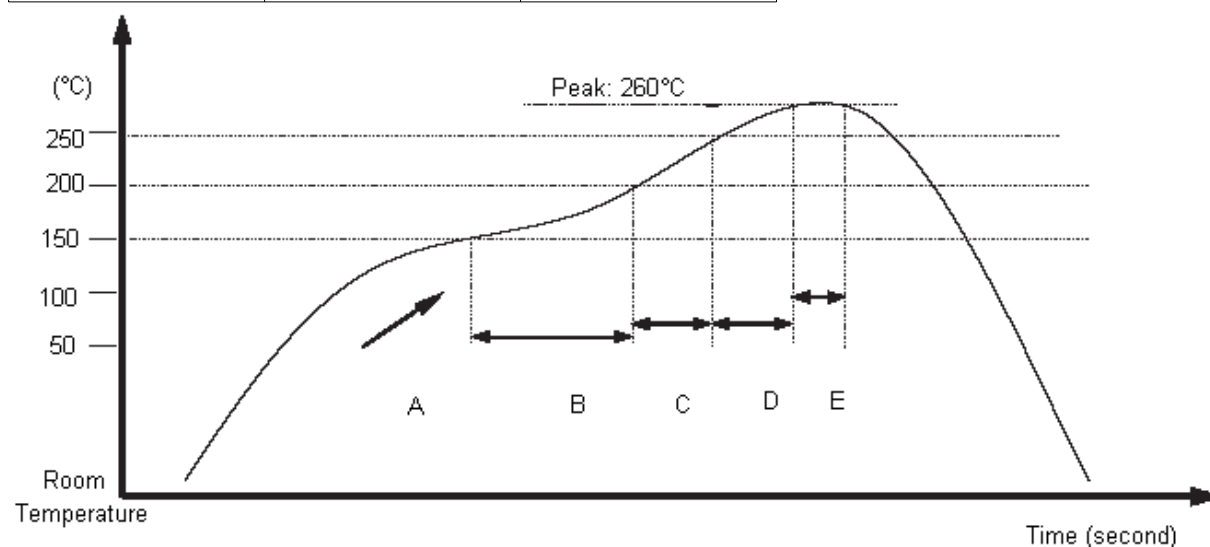
PCB Mounting



Dimensions : Millimetres (Inches)

Duration of solder immersion: 5 ± 1 seconds (PCB is 1.6mm in thickness).

Temperature Profile		
Zone	Room Temperature (°C)	Time (seconds)
Pre-heat (A)	150°C	Minimum 120
Soak (B)	180°C to 200°C	Minimum 150
Peak (C)	200°C to 235°C	Minimum 30
Peak (D)	235°C to 260°C	Minimum 40
Peak (E)	260°C	Maximum 10



Toggle Switches

Sub-Miniature - Sealed



Specifications

Number of Poles	Switch Function			Connected Terminals/Schematic			Model Number
	Position 1	Position 2	Position 3	Position 1	Position 2	Position 3	
							
SP	On	None	Mom	2 - 3	N/A	2 - 1	2AS2
	Mom	Off			Open		2AS4
	On						2AS5
DP	On	None	On	2 - 3, 5 - 6	N/A	2 - 1, 5 - 4	2AD1
			Mom				
		Off	On		Open		2AD3
		On		2 - 3, 5 - 6	2 - 3, 5 - 4	2 - 1, 5 - 4	2AD6

Mom = Momentary

Specification Table

Description	Part Number
Switch, Toggle, DPDT, Vertical, On-Mom	2AD2T2A2M2RE
Switch, Toggle, DPDT, Vertical, On-On	2AD1T2A2M2RE
Switch, Toggle, DPDT, Vertical, On-Off-On	2AD3T2A2M2RE
Switch, Toggle, DPDT, Vertical, On-On-On	2AD6T2A2M2RE
Switch, Toggle, SPDT, Horizontal R/A, Mom-Off-Mom	2AS4T2A1M6RE
Switch, Toggle, Horizontal R/A, On-Mom	2AD2T2A2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-On	2AD1T2A2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-On-On	2AD6T2A2M6RE
Switch, Toggle, SPDT, Vertical R/A, On-Mom	2AS2T2A1M7RE
Switch, Toggle, SPDT, Vertical R/A, Mom-Off-Mom	2AS4T2A1M7RE
Switch, Toggle, SPDT, Vertical R/A, On-Off-Mom	2AS5T2A1M7RE
Switch, Toggle, DPDT, Vertical R/A, On-Mom	2AD2T2A2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-On	2AD1T2A2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-Off-On	2AD3T2A2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-On-On	2AD6T2A2M7RE

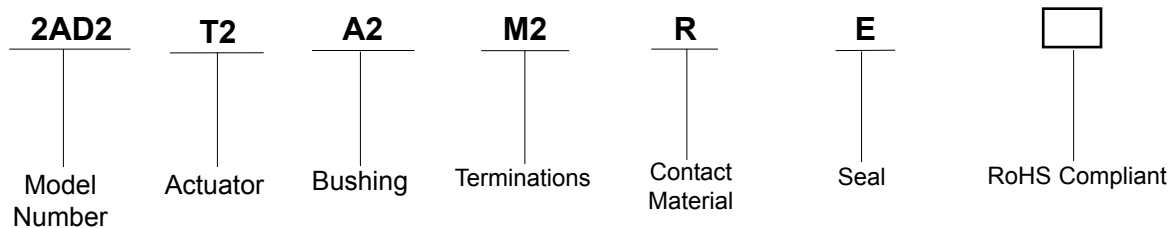


Toggle Switches

Sub-Miniature - Sealed



Part Number Explanation:



Model Number	: 2AS2 = SP On-None-Mom, 2AS4 = SP Mom-Off-Mom, 2AS5 = SP On-Off-Mom, 2AD1 = DP On-None-On, 2AD2 = DP On-None-Mom, 2AD3 = DP On-Off-On and 2AD6 = DP On-On-On.
Actuator	: T2 = 6.10 High.
Bushing	: A1 = SP 4.65 High and A2 = DP 4.50 High.
Terminations	: M2 = PVC Through Hole, M6 = Right Angle, PVC Through Hole and M7 = Vertical Right Angle, PVC Through Hole.
Contact Material	: R = Gold.
Seal	: E = Epoxy (STD).

Toggle Switches

Sub-Miniature - Sealed



Notes:

International Sales Offices:

	AUSTRALIA – Farnell Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225		FINLAND – Farnell Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		ITALY – Farnell Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300		SPAIN – Farnell Tel No: 901 20 20 80 Fax No: 901 20 20 90
	AUSTRIA – Farnell Tel No: ++ 43 662 2180 680 Fax No: ++ 43 662 2180 670		FRANCE – Farnell Tel No: ++ 33 474 68 99 99 Fax No: ++ 33 474 68 99 90		MALAYSIA – Farnell-Newark Tel No: ++ 60 3 7873 8000 Fax No: ++ 60 3 7873 7000		SWEDEN – Farnell Tel No: ++ 46 8 730 50 00 Fax No: ++ 46 8 83 52 62
	BELGIUM – Farnell Tel No: ++ 32 3 475 2810 Fax No: ++ 32 3 227 3648		GERMANY – Farnell Tel No: ++ 49 89 61 39 39 39 Fax No: ++ 49 89 613 59 01		NETHERLANDS – Farnell Tel No: ++ 31 30 241 7373 Fax No: ++ 31 30 241 7333		SWITZERLAND – Farnell Tel No: ++ 44 204 64 64 Fax No: ++ 44 204 64 54
	BRAZIL – Farnell-Newark Tel No: ++ 55 11 4066 9400 Fax No: ++ 55 11 4066 9410		HONG KONG – Farnell-Newark Tel No: ++ 852 2268 9888 Fax No: ++ 852 2268 9899		NEW ZEALAND – Farnell Tel No: 0800 90 80 80 Fax No: 0800 90 80 81		UK – Farnell Tel No: ++ 44 8701 200 200 Fax No: ++ 44 8701 200 201
	CHINA – Farnell-Newark Tel No: ++86 10 6238 5152 Fax No: ++86 10 6238 5022		HUNGARY – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		NORWAY – Farnell Tel No: 800 146 70 Fax No: 800 146 76		UK – CPC ++ 44 8701 202 530 ++ 44 8701 202 531
	CZECH REPUBLIC – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		INDIA – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		PORTUGAL – Farnell Tel No: ++ 34 93 475 8804 Fax No: ++ 34 93 474 5288		USA – Newark Tel No: 800 463 9275
	DENMARK – Farnell Tel No: ++ 45 44 53 66 44 Fax No: ++ 45 44 53 66 06		IRELAND – Farnell Tel No: ++ 353 1 830 9277 Fax No: ++ 353 1 830 9016		RUSSIA – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209	 EXPORT – Farnell Tel No: ++ 44 8701 200 208 Fax No: ++ 44 8701 200 209 For enquiries from all other markets	
	ESTONIA – Farnell Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		ISRAEL – Farnell Tel No: ++ 180 937 0015 Fax No: ++ 180 937 0014		SINGAPORE – Farnell-Newark Tel No: ++ 65 6788 0200 Fax No: ++ 65 6788 0300		

<http://www.farnell.com>
<http://www.newark.com>
<http://www.cpc.co.uk>

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2008.

