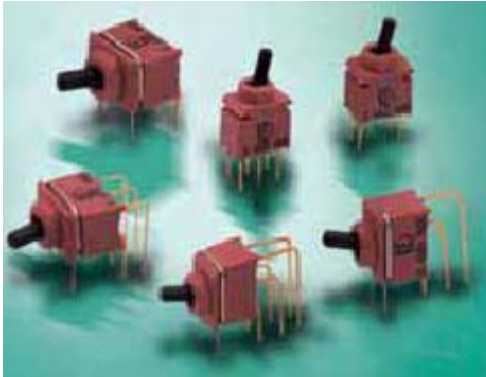


Toggle Switches

Ultra-Minature - Sealed



Specifications:

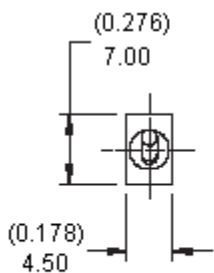
Contact Rating	: 0.4 volt-amps (VA) maximum at 20V AC or DC maximum.
Mechanical Life	: 40,000 make-and-break cycles.
Contact Resistance	: Below 100mΩ typical at 2 to 4V dc, 100mA.
Minimum Insulation Resistance	: 500MΩ.
Dielectric Strength	: 500VRMS at sea level.
Operating Temperature	: -30°C to 85°C.

Materials:

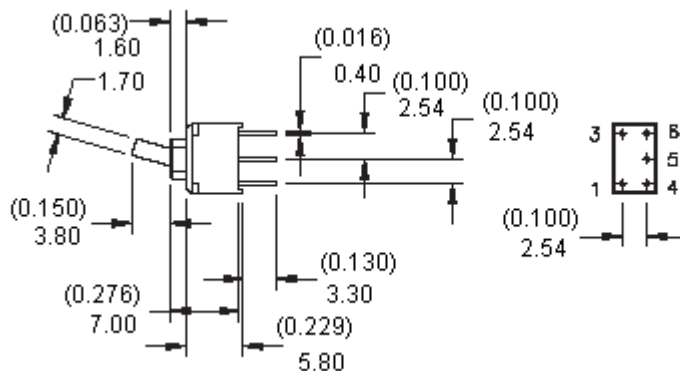
Actuator	: Glass filled nylon 6/6, heat stabilized, with standard internal o-ring seal.
Housing and base	: Glass filled nylon 66 or 4/6, heat stabilized.
Switch Support	: Brass or steel, tin plated.

Pole Option

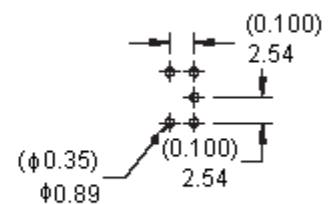
M2RE



SPDT



PCB Mounting



Dimensions : Millimetres (Inches)

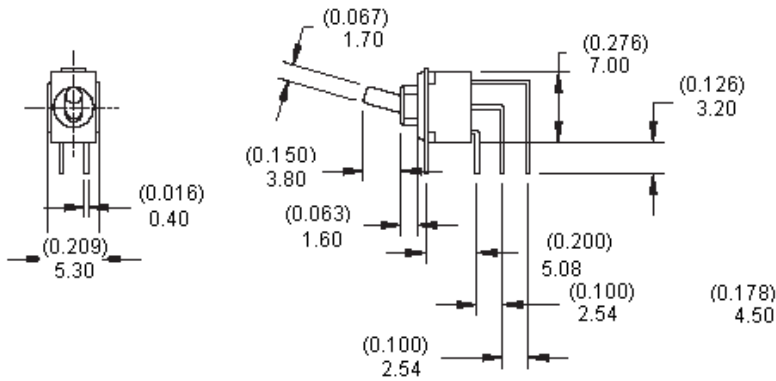
Ultra-Minature - Sealed



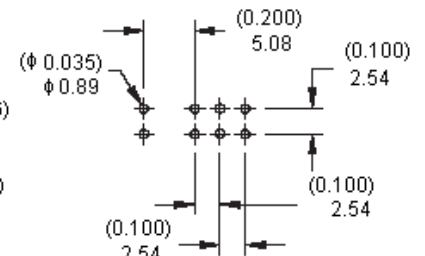
Pole Option

M2RE

DPDT



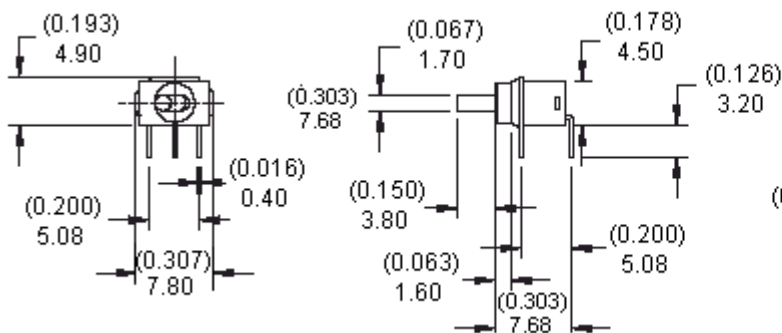
PCB Mounting



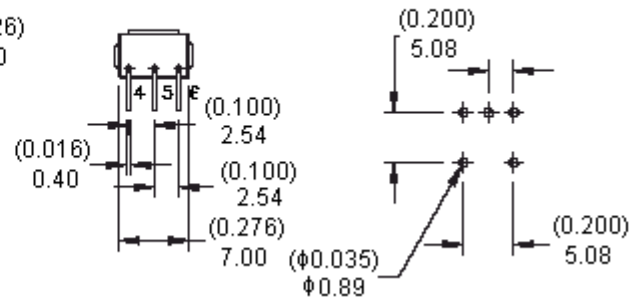
Dimensions : Millimetres (Inches)

M6RE

SPDT



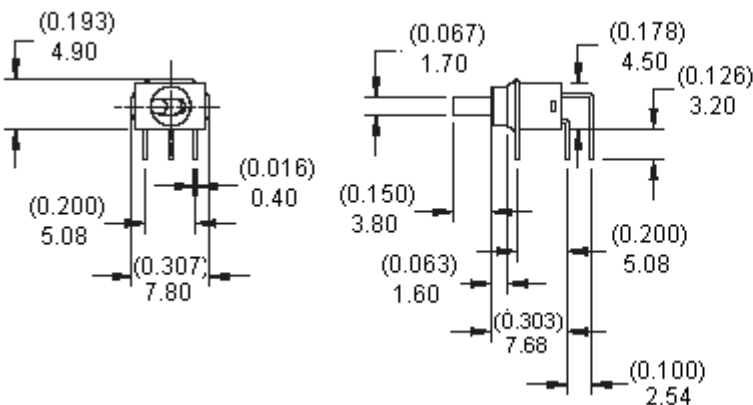
PCB Mounting



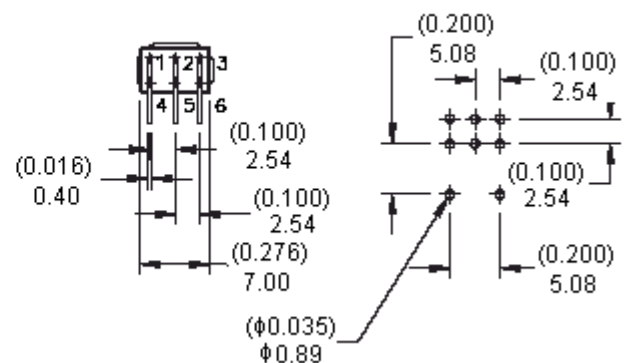
Dimensions : Millimetres (Inches)

M6RE

DPDT



PCB Mounting



Dimensions : Millimetres (Inches)



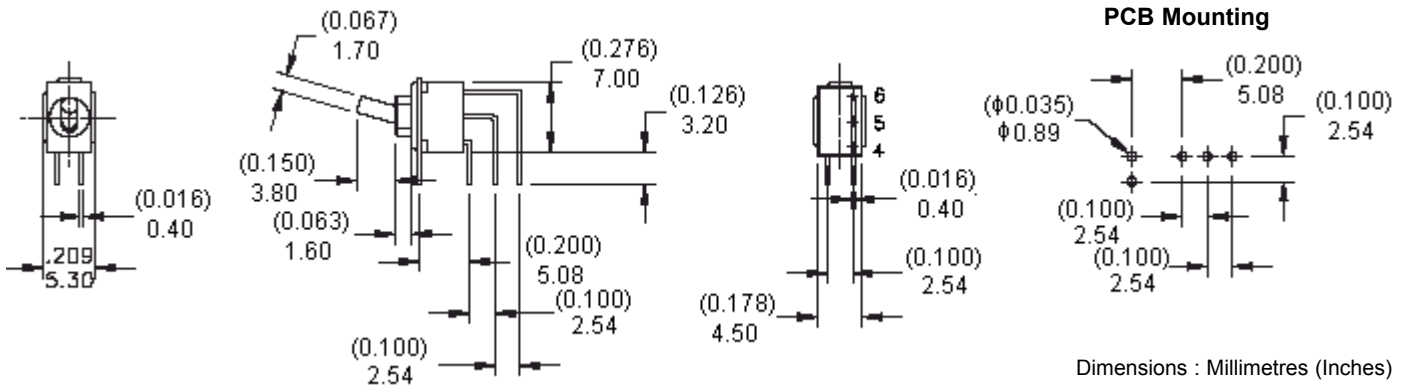
Toggle Switches

Ultra-Minature - Sealed

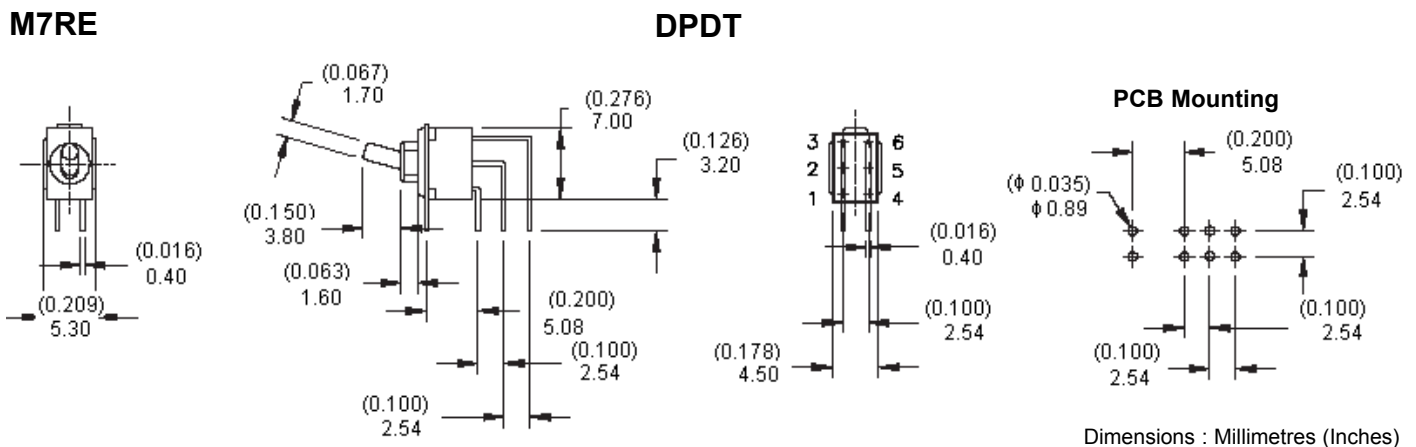


Pole Option

M7RE



M7RE



Soldering Process:

Manual soldering: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

Wave soldering:

Recommended soldering temperature : 260 ±5°C.

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

Soldering: Vapour phase.

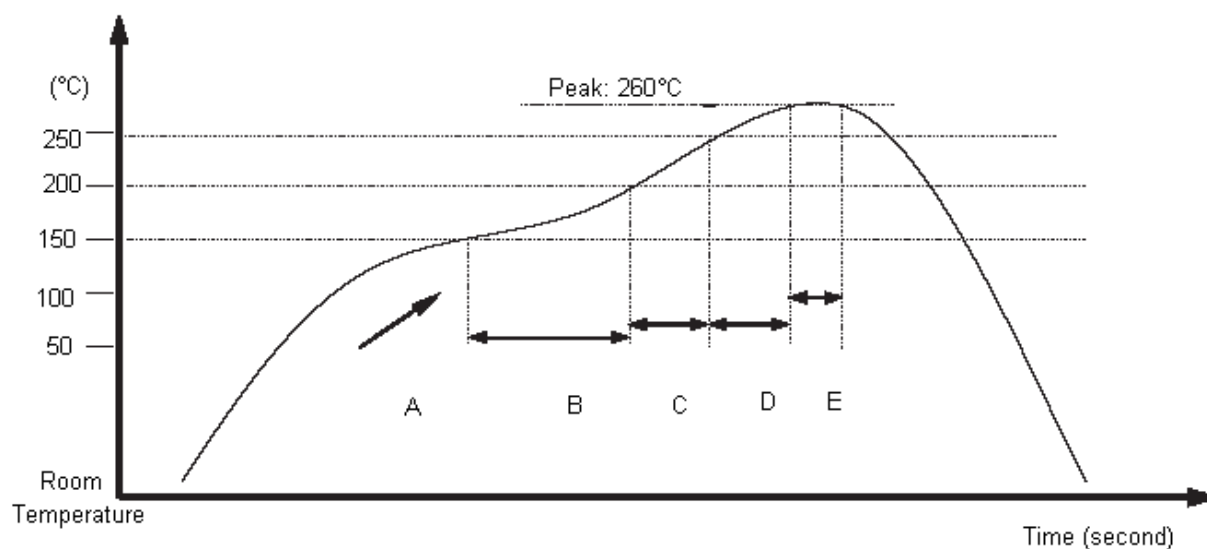
Toggle Switches

Ultra-Minature - Sealed



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



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	On		N/A		2US1
			Mom				2US2
		Off	On		Open		2US3
DP	On	None	On		N/A		2UD1
			Mom				2UD2
	On	Off	On		Open		2UD3

Mom = Momentary



Toggle Switches

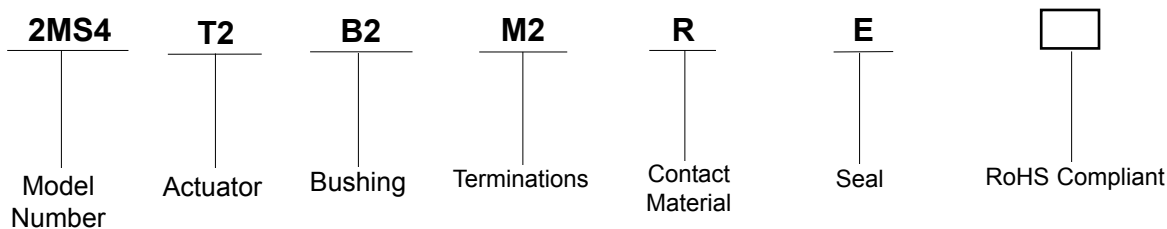
Ultra-Minature - Sealed



Specification Table

Description	Part Number
Switch, Ultraminiature, SPDT, On-Mom	2US2T1A1M2RE
Switch, Ultraminiature, SPDT, On-On	2US1T1A1M2RE
Switch, Ultraminiature, SPDT, On-Off-On	2US3T1A1M2RE
Switch, Ultraminiature, DPDT, On-Mom	2UD2T1A1M2RE
Switch, Ultraminiature, DPDT, On-On	2UD1T1A1M2RE
Switch, Ultraminiature, DPDT, On-Off-On	2UD3T1A1M2RE
Switch, Ultraminiature, Horizontal R/A, SPDT, On-Mom	2US2T1A1M6RE
Switch, Ultraminiature, Horizontal R/A, SPDT, On-On	2US1T1A1M6RE
Switch, Ultraminiature, Horizontal R/A, SPDT, On-Off-On	2US3T1A1M6RE
Switch, Ultraminiature, Horizontal R/A, DPDT, On-Mom	2UD2T1A1M6RE
Switch, Ultraminiature, Horizontal R/A, DPDT, On-On	2UD1T1A1M6RE
Switch, Ultraminiature, Horizontal R/A, DPDT, On-Off-On	2UD3T1A1M6RE
Switch, Ultraminiature, Vertical R/A, SPDT, On-Mom	2US2T1A1M7RE
Switch, Ultraminiature, Vertical R/A, SPDT, On-On	2US1T1A1M7RE
Switch, Ultraminiature, Vertical R/A, SPDT, On-Off-On	2US3T1A1M7RE
Switch, Ultraminiature, Vertical R/A, DPDT, On-Mom	2UD2T1A1M7RE
Switch, Ultraminiature, Vertical R/A, DPDT, On-On	2UD1T1A1M7RE
Switch, Ultraminiature, Vertical R/A, DPDT, On-Off-On	2UD3T1A1M7RE

Part Number Explanation:



Model Number	: 2US1 = SP On-None-On, 2US2 = SP On-None-Mom, 2US3 = SP On-Off-On, 2UD1 = DP On-None-On, 2UD2 = DP On-None-Mom and 2UD3 = DP On-Off-On.
Actuator	: T1 = 3.80 High (std).
Bushing	: A1 = 1.60 High (std).
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

Ultra-Minature - 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.

