



MCD,DA-V

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Venkat	07/3/08	Suresh	07/3/08	G. C	21/3/08

Schematic (Typical)

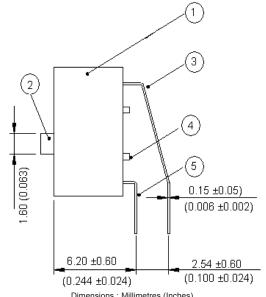
9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9

2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available

Specifications Table

Number of Positions	А	В	Part Number
3	8.98 (0.354)	5.08 (0.200)	MCDA03
5	14.06 (0.554)	10.16 (0.400)	MCDA05
7	19.14 (0.754)	15.24 (0.600)	MCDA07
9	24.22 (0.954)	20.32 (0.800)	MCDA09

Dimensions: Millimetres (Inches)



Dimensions : Millimetres (Inches)

TOLERANCES:
UNLESS OTHERWISE
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY
FOR REFERENCE
PURPOSES ONLY.

DRAWN BY:	DATE:
Venkat	07/03/08
CHECKED BY:	DATE:
Suresh	07/03/08
APPROVED BY:	DATE:
G.Cook	21/03/08

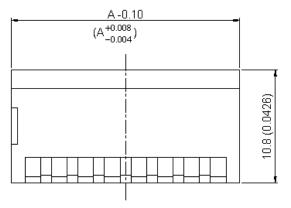
: 1	DRAWING TITLE:									
3	Dual In Line Switches-Right Angle and Piano types									
:: }	SIZE	DWG NO.	M10000813			ELECTRONIC FILE DS,DP,DA-V DWG				
: }	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	2 0	F 6			

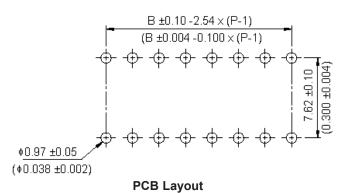


MCDA/DP Series

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Venkat	07/3/08	Suresh	07/3/08	G. C	21/3/08

MCDP





1.30 (0.051) 1.30 (0.051) 2.54 (0.100) 2.54 (0.100) 2.54 (0.100) 2.54 (0.100) 2.54 (0.024) 2.54 (0.024)

Dimensions: Millimetres (Inches)

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 with but notice and replaces all data sheets previously supplied. The Information supplied is seleved to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or crisission from it or for any use made of it. Users of this bata sheet should check for themselves the Information and the suitability of the prodcits of their purpose aim rior make any assumptions bead on information included or make the product of the pr

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

 DRAWN BY:
 DATE:

 Venkat
 07/03/08

 CHECKED BY:
 DATE:

 Suresh
 07/03/08

 APPROVED BY:
 DATE:

 G.Cook
 21/03/08

DRAWING TITLE:

Dual In Line Switches-Right Angle and Piano types

SIZE DWG NO. M10000813 ELECTRONIC FILE DS,DP,DA-V_DWG A

SCALE: NTS U.O.M.: mm (Inches) SHEET: 3 OF 6



MCDA/DP Series

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Venkat	07/3/08	Suresh	07/3/08	G. C	21/3/08

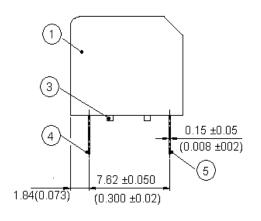
Schematic (Typical)

2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available

Specifications Table

Number of Positions	А	В	Part Number
3	9.18 (0.361)	5.08 (0.200)	MCDP03
5	14.26 (0.561)	10.16 (0.400)	MCDP05
7	19.34 (0.761)	15.24 (0.600)	MCDP07
9	24.42 (0.961)	20.32 (0.800)	MCDP09

Dimensions: Millimetres (Inches)



Dimensions: Millimetres (Inches)

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.
SPECIFIED,
DIMENSIONS ARE
FOR REFERENCE
PURPOSES ONLY.

DRAWN BY:	DATE:
Venkat	07/03/08
CHECKED BY:	DATE:
Suresh	07/03/08
APPROVED BY:	DATE:
G Cook	21/03/08

:	DRAWING TITLE:									
	Dual In Line Switches-Right Angle and Piano types									
:	SIZE	DWG NO.	M10000813	ELECTRONIC FILE DS,DP,DA-V DWG			REV A			
:	SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 4		4 OF	- 6			



MCDA/DP Series

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Venkat	07/3/08	Suresh	07/3/08	G. C	21/3/08

Specifications:

Mechanical:

Mechanical life : 2,000 operations per switch.

Maximum Operating force : 400gf (MCDP series).

1,000gf (MCDA series).

Stroke : 2.0mm.

Operating temperature : -20 to +70°C.

Storage temperature : -40 to +85°C.

Storage temperature Electrical:

Electrical life : 2,000 operations per switch 24V dc, 25mA.

 $\begin{tabular}{lll} Non-switching rating &: 100mA, 50V dc. \\ Switching rating &: 25mA, 24V dc. \\ Maximum contact resistance &: 50m\Omega at intial \\ Minimum insulation resistance &: 100M\Omega at 500V dc. \\ Dielectric strength &: 500V ac/1 minute \\ \end{tabular}$

Circuit : SPST.

Circuit Materials:

Actuator

Base : UL 94V-0 PBT thermoplastic.

Colour: Black.

Cover : UL 94V-0 PBT thermoplastic.

Colour: Red, black and blue.

: UL 94V-0 PBT high thermoplastic.

Colour: White.

Contact : Phospor bronze with gold plating over nickel.

Top seal : Polyester film.
Potting material : Epoxy.

Soldering Process:

Keep all switch contacts in their "OFF" position for all operations.

 $\textbf{Wave soldering:} Recommended \ temperature \ at \ 500°F \ (260°C \) \ maximum \ 5 \ seconds \ for \ through \ hole \ type.$

Hand soldering: Use a soldering iron of 30 watts, controlled at 350°C approximately maximum 5 seconds.

TOLERANCES:

Make sure switch is in "OFF" position during soldering process or it will decrease the operating force and meanwhile increase the contact resistance.

DRAWN BY:

Do not wash the switch body except top tape sealed type, which suitable for spray cleaning method from top of the s/w.

This data sheet and its contents (the "Information") belong to the Premier Famell 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 state that the property rights is granted. The Information is subject to change without notice and replaces all data sheets though the property of the Information of the Subject of the Compileteness, any error in or ornision from it or for any use made of it. Users of this data sheet should check for themselves the Information and the sublashility of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or changes 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 change arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from to regigence.

SFC BULLTICOM's lab ne registered transferred for Group, o Premier Famel pize 2008.

UNLESS OTHERWISE	Venkat	07/03/08	[
SPECIFIED,	CHECKED BY:	DATE:	SIZE	-
DIMENSIONS ARE FOR REFERENCE	Suresh	07/03/08	A	
PURPOSES ONLY.	APPROVED BY:	DATE:		-
	G.Cook	21/03/08	SCAL	

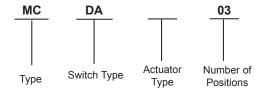
DATE:	DRAW	ING TITLE:						
07/03/08	Dual In Line Switches-Right Angle and Piano types							
DATE:	SIZE	DWG NO.		ELEC	TRONIC FILE	REV		
07/03/08	A	J	M10000813		DP,DA-V_DWG	Α		
DATE:	- ` `				Ι -			
21/03/08	SCALE: NTS		U.O.M.: mm (Inches)		SHEET: 5 O	F 6		



MCDA/DP Series

REVISIONS								
ECN#	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Venkat	07/3/08	Suresh	07/3/08	G. C	21/3/08

Part Number Explanation



Switch Type

: DA = Right Angle Type Dip Switch.
DP = Piano Type Dip Switch.
: ☐ = Raised Actuator for MCDA series,
Short Key for MCDP series. **Actuator Type**

: 03 = 3 Positions. **Number of Positions**

05 = 5 Positions. 07 = 7 Positions.

09 = 9 Positions.

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

as theat and its contents (the "Information") belong to the Premier Farnell Group
up") or are licensed to it. No licence is granted for the use of it other than for
ion purposes in connection with the products to which it relates. No licence
tellectual property rights is granted. The Information is subject to change withare and replaces all data sheets proviously supplied. The Information supplied is
to be accurate but the Group assumes no responsibility for its accuracy or
services, and peack for themselves the Information and the Information included or
Lability for lace or damage resulting from any relatione on the Information included or
Lability for such or damage resulting from any relatione on the Information
Information and the Information and Inform

UNLESS OTHERWISE	Venkat
SPECIFIED,	CHECKED BY
DIMENSIONS ARE FOR REFERENCE	Suresh
PURPOSES ONLY.	APPROVED E
	G Cook

DRAWN BY:	DATE:	DRAWING TITLE:			
Venkat	07/03/08	Dual In Line Switche			
CHECKED BY:	DATE:	SIZE DWG NO.			
Suresh	07/03/08			M100	
APPROVED BY:	DATE:				
G.Cook	21/03/08	SCALE: NTS		U.O.N	