NDI & DM SERIES
SPST STANDARD DIP SWITCHES

FEATURES
High reliability.
Self-cleaning contacts.
Multi- positions.
Process compatible with tape seal.
Dual in-line .100" x .300" term. spacing.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life	2000 cycles min. per switch @ 24 VDC, 25 mA
Contact rating, non-switching	100 mA at 50 VDC
Contact rating, switching	25 mA at 24 VDC
Contact resistance at current 100 mA	50 milliohms max. initial - 100 milliohms max. after life test
Insulation resistance at 100 VDC	100 milliohms minimum
Dielectric strength	500 VAC for 1 minute
Capacitance	5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life	2000 cycles min. per switch
Operating force	1000 grams max.
Vibration	10-55 Hz.per MIL-STD-202F METHOD 201A
Shock	50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B
Operating temperature range	-20°C to 85°C

SOLDERING & CLEANING RECOMMENDATIONS*

Hand soldering	350°C max. for 2 seconds max.(30 watt iron max.)
Wave soldering	260°C max. for 5 seconds max.
Cleaning (with tape seal)	Spray wash from top side only.

***** Note: keep switches in “OFF” position during soldering and cleaning for best results

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MATERIALS

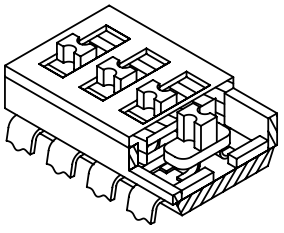
Base & Cover	NDI: UL94V-O, glass fiber filled PBT, black
	DM: UL94V-O, glass fiber filled PPS, black
Actuators	UL94V-O, Nylon, white
Contacts	Gold over nickel plated copper alloy
Terminals	Gold plated brass.
Term. Sealing	Molded-in
Tape seal	Kapton

PACKAGING

DIP switches are shipped in standard IC tubes with all actuators in the "OFF" position.
Tape & reel packaging per EIA available for DMR models (see next page).

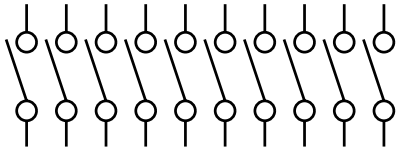
SWITCH CROSS SECTIONS

Double
contact system



DI & DM

SCHEMATIC (TYPICAL)



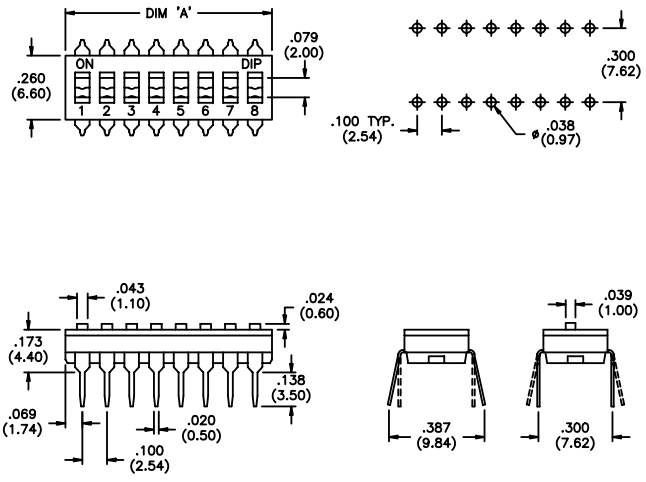
See tabulations on following pages for number of positions available (10 shown)

APEM, 63 NECK ROAD, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (781) 245-4531 E-mail: info@apem.com

NDI Series Machine Insertable ℗

Tin/lead plated brass terminals
Gold plated terminals available on request

Actuator	Squared terminals: MODEL NO. with no tape seal	Squared terminals: MODEL NO. with tape seal	Spread terminals: MODEL NO. with no tape seal	Spread terminals: MODEL NO. with tape seal	No. of Pos.	'A' Dim. +.008/-.000" (+0.2/-0.0mm)
Raised	NDI01H	n/a	NDI01S	n/a	1	.137 (3,48)
	NDI02H	n/a	NDI02S	n/a	2	.237 (6,02)
	NDI04H	n/a	NDI04S	n/a	4	.437 (11.10)
	NDI06H	n/a	NDI06S	n/a	6	.637 (16,18)
	NDI08H	n/a	NDI08S	n/a	8	.837 (21,26)
	NDI10H	n/a	NDI10S	n/a	10	1.037 (26,34)
Recessed	NDIR01H	n/a	NDIR01S	n/a	1	.137 (3,48)
	NDIR02H	NDIR02HT	NDIR02S	NDIR02ST	2	.237 (6,02)
	NDIR04H	NDIR04HT	NDIR04S	NDIR04ST	4	.437 (11,10)
	NDIR06H	NDIR06HT	NDIR06S	NDIR06ST	6	.637 (16,18)
	NDIR08H	NDIR08HT	NDIR08S	NDIR08ST	8	.837 (21,26)
	NDIR10H	NDIR10HT	NDIR10S	NDIR10ST	10	1.037 (26,34)



℗ Auto-insertable using equipment from Amistar, Dynapert, Panasert, Northeastern Tool, Universal and others.

n/a = not available.

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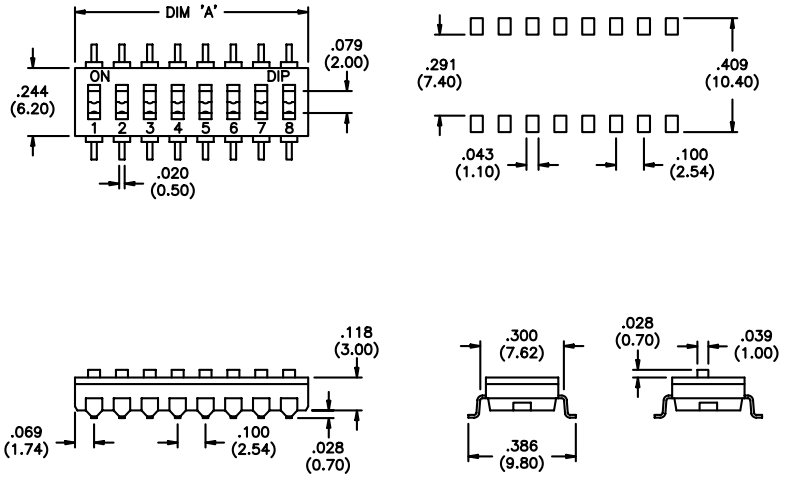
DM Series Surface Mount ℗

Actuator Style	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. of Pos.	'A' Dimension +.008/-.000" (+0.2/-0.0mm)
Raised Actuator	DM01	n/a	1	.137 (3,48)
	DM02	n/a	2	.237 (6,02)
	DM03	n/a	3	.337 (8,56)
	DM04	n/a	4	.437 (11,10)
	DM05	n/a	5	.537 (13,64)
	DM06	n/a	6	.637 (16,18)
	DM07	n/a	7	.737 (18,72)
	DM08	n/a	8	.837 (21,26)
	DM09	n/a	9	.937 (23,80)
	DM10	n/a	10	1.037 (26,34)
	DM12	n/a	12	1.237 (31.42)
Recessed Actuator	DMR01	n/a	1	.137 (3,48)
	DMR02	DMR02T	2	.237 (6,02)
	DMR03	DMR03T	3	.337 (8,56)
	DMR04	DMR04T	4	.437 (11,10)
	DMR05	DMR05T	5	.537 (13,64)
	DMR06	DMR06T	6	.637 (16,18)
	DMR07	DMR07T	7	.737 (18,72)
	DMR08	DMR08T	8	.837 (21,26)
	DMR09	DMR09T	9	.937 (23,80)
	DMR10	DMR10T	10	1.037 (26,34)
	DMR12	DMR12T	12	1.237 (31.42)



For tape & reel packaging on DMR models only, add 'TR' to model number - example: DMR08TTR. Note- tape & reel packaging is available only with tape seal models. 900 switches per reel.