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 500 VDC	100 Megohms 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

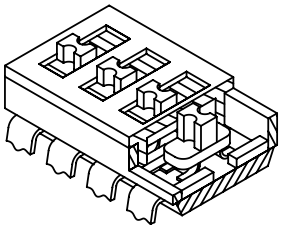
Base & Cover	NDI: UL94V-O, glass fiber filled PBT, black
	DM: UL94V-O, glass fiber filled PPS, black
Actuators	UL94V-O, Nylon, white
Contacts	Gold over nickel plated copper alloy
Terminals	Gold plated brass.
Term. Sealing	Molded-in
Tape seal	Kapton

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).

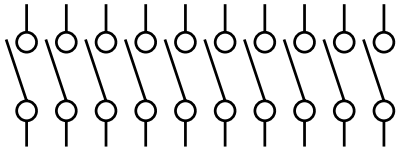
SWITCH CROSS SECTIONS

Double
contact system



DI & DM

SCHEMATIC (TYPICAL)



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

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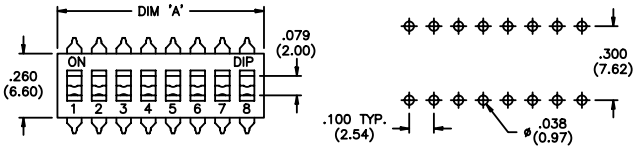
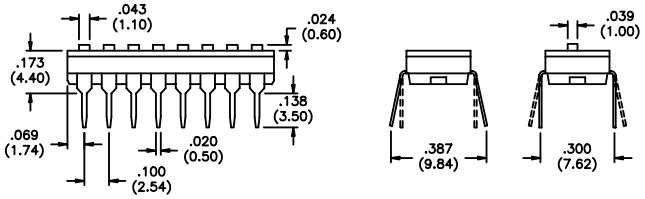
NDI Series Machine Insertable ℗





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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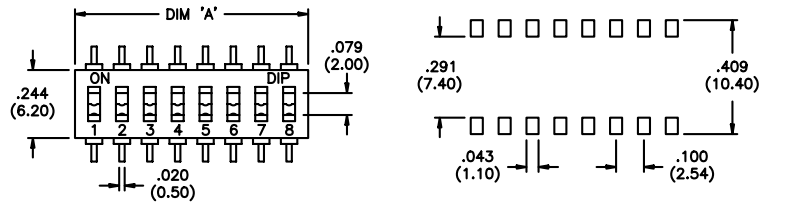
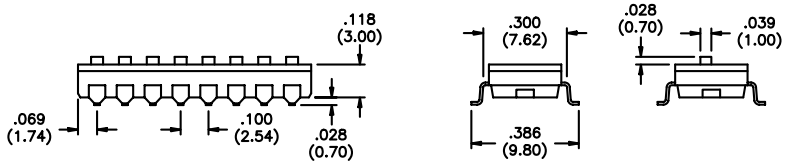
DM Series Surface Mount ℗





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.

Mouser Electronics

Authorized Distributor

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Apem:

DMR02PTTR NDI01H NDI01S NDI02H NDI02S NDI03H NDI03S NDI04H NDI04S NDI05H NDI05S NDI06H NDI06S NDI07H NDI07S NDI08H NDI08S NDI09H NDI09S NDI10H NDI10S NDI12H NDI12S NDIR01H NDIR01S NDIR02H NDIR02HT NDIR02S NDIR02ST NDIR03H NDIR03HT NDIR03S NDIR03ST NDIR04H NDIR04HT NDIR04S NDIR04ST NDIR05H NDIR05HT NDIR05S NDIR05ST NDIR06H NDIR06HT NDIR06S NDIR06ST NDIR07H NDIR07HT NDIR07S NDIR07ST NDIR08H NDIR08HT NDIR08S NDIR08ST NDIR09H NDIR09HT NDIR09S NDIR09ST NDIR10H NDIR10HT NDIR10S NDIR10ST NDIR12H NDIR12HT NDIR12S NDIR12ST DM01 DM02 DM04 DM05 DM06 DM08 DM09 DM10 DM12 DMR01 DMR02 DMR02T DMR02TTR DMR03T DMR04 DMR04T DMR04TTR DMR05T DMR06T DMR06TTR DMR07T DMR08 DMR08T DMR08TTR DMR09T DMR09TTR DMR10 DMR10T DMR12T DMR12TTR DMR08TNTR DMR05TTR DMR03TTR DMR01TTR DMR01T