DHS SERIES 1/2 PITCH SPST SURFACE MOUNT DIP SWITCHES

FEATURES
Ultra-compact low-profile size.
.050" (1.27mm) terminal spacing.
Self-cleaning twin point contacts.
Auto-insertable and reflow solderable.
Process compatible with std'd. tape seal.
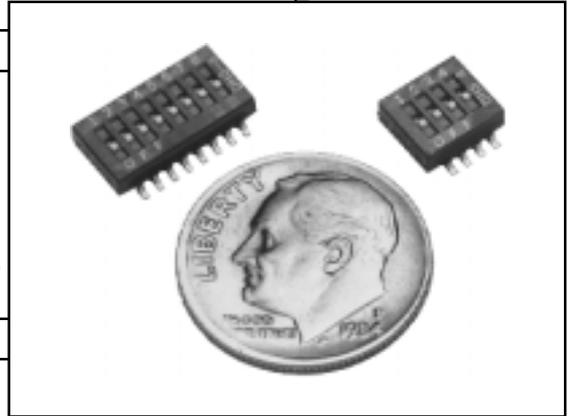
GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life	1000 cycles minimum
Contact rating, non-switching	100 mA at 50 VDC
Contact rating, switching	100 mA at 6 VDC
Contact resistance	100 mý maximum
Insulation resistance	100 Mý minimum
Dielectric strength	250 VDC for 1 min. between adjacent or opposite terminals
Capacitance	5 pf. max. between adjacent or opposite terminals

MECHANICALS, THERMALS

Operating force	400 grams maximum
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	-40°C to +80°C

SOLDERING & CLEANING RECOMMENDATIONS

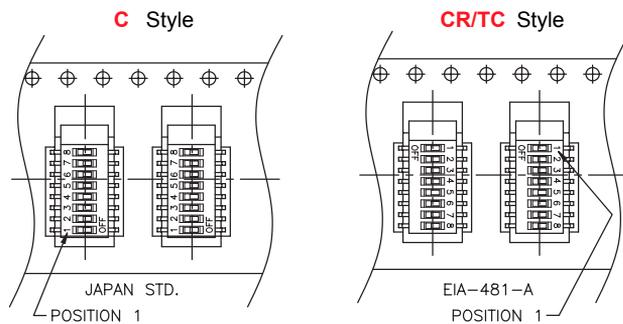|	
Hand soldering	330°C max. for 3 seconds max.(30 watt iron max.)
Reflow soldering	Set oven at 215°C max. for 90 seconds max.
Cleaning (with standard tape seal in place)	1-1-1 Trichloroethane, Freon TE, Isopropyl alcohol or aqueous cleaner for 2 minutes max. at 20°C

MATERIALS

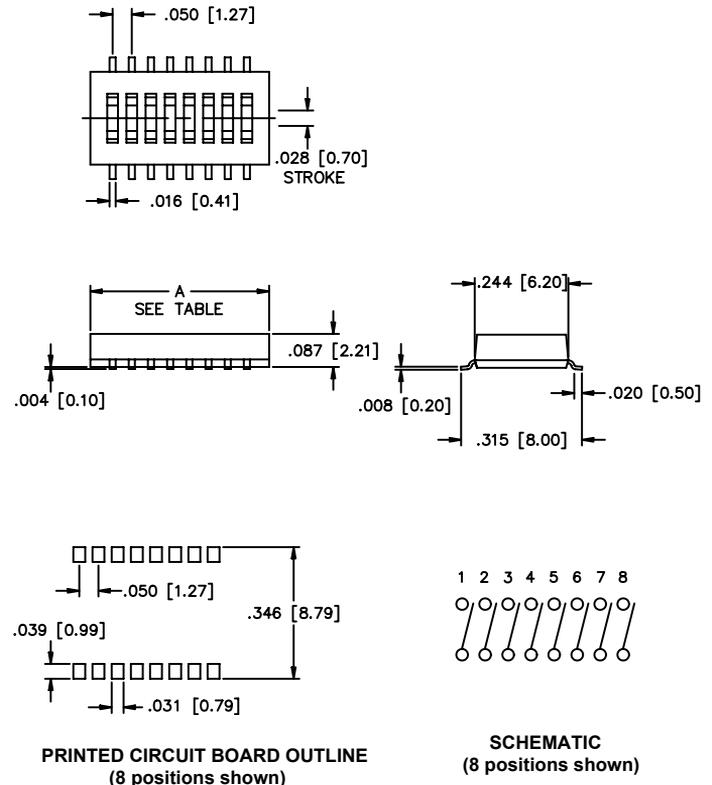|	
Base	UL94V-O, glass fiber filled PPS, black
Cover	UL94V-O, glass fiber filled PPS, black
Actuators	UL94V-O, Polyamide, yellow
Contacts	Gold plated beryllium copper
Terminals	Gold plated copper alloy
Terminal seal	Epoxy
Tape seal	Polyimide

PACKAGING

Supplied in tape & reel packaging.
Reel & tape meets the requirements of EIA-481-A.

C Style   JAPAN STD. POSITION 1

CR/TC Style   EIA-481-A POSITION 1

P

MECHANICAL OUTLINE

.050 [1.27]
.028 [0.70] STROKE
.016 [0.41]

A SEE TABLE
.087 [2.21]
.004 [0.10]

.244 [6.20]
.008 [0.20]
.020 [0.50]
.315 [8.00]

.050 [1.27]
.346 [8.79]
.039 [0.99]
.031 [0.79]

PRINTED CIRCUIT BOARD OUTLINE (8 positions shown)

1 2 3 4 5 6 7 8

SCHEMATIC (8 positions shown)

MODEL NUMBER	NO. 0F POS.	A DIMENSION	
		IN(± .012)	MM(± 0.30)
DHS4C	4	.268	6.81
DHS6C	6	.368	9.35
DHS8C	8	.468	11.89
DHS10C	10	.568	14.43

Note: C at end of model no. indicates **C** style packaging. Substitute CR/TC for S for **CR/TC** packaging.

Mouser Electronics

Authorized Distributor

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[Apem]():
  [DHS10S]() [DHS4S]() [DHS6S]() [DHS8S]() [DHS8SRTC]()