

Auto-Insertable and Surface Mountable Dip Switch "Extended or Flush Actuator" Thru Hole & Surface Mount

AD Series

FEATURES:

- Available in PC and surface mount termination versions.
- High pressure wiping contact allows aqueous or solvent cleaning without tape seal.
- Auto-insertable using insertion equipment from Amistar, Dynapert, Panasert, Northeastern Tool and Universal.*
*Flush Actuator versions.
- Tape Seal version for vacuum pick-n-place
- Unique design can withstand vapor phase reflow or wave soldering conditions.
- Gas tight contacts

ENVIRONMENTAL SPECIFICATIONS:

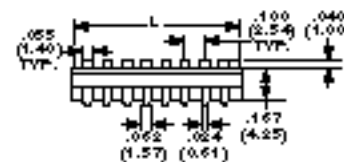
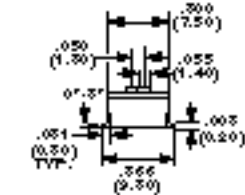
Operating Temperature.....-30°C to + 85°
 Storage Temperature.....-45°C to + 100°C
 Solder Heat Resistance.....245°C ± 5°C with switch in "off" position
 30 seconds when mounted on a .060" thick PCB
 per MIL-STD202, Method 210
 CleaningAqueous solution or solvent

MATERIAL SPECIFICATIONS:

Moving ContactGold flashed copper alloy
 BasePolyester/PPS
 CoverPolyester/PPS UL94V-0
 Actuator Material.....Polyester/PolyamideUL94V-0
 Fixed Contact & Terminal.....AD Series: solder coated brass

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC max.
 Initial Contact Resistance.....50 Milliohms max.
 Insulation Resistance1,000 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC
 Operating ForceLess than 1,000 grams
 Actuator Travel.....AD/R Series 1.30mm/.050" piano style 25°
 Life Expectancy1,000 Cycles

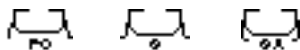


ADE08

Extended Actuator

ADE

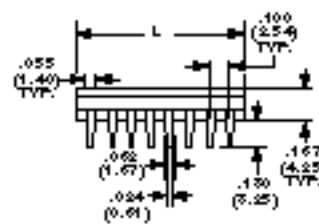
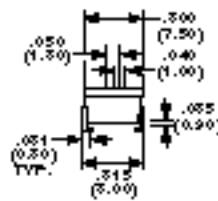
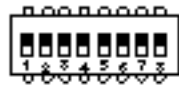
ADF



"S" Termination Shown

Extended Actuator	"S" Term.	"SA" Term.	No. of Positions	Actuator Style
ADE02	ADE02S	ADE02SA	2	Slide
ADE03	ADE03S	ADE03SA	3	Slide
ADE04	ADE04S	ADE04SA	4	Slide
ADE05	ADE05S	ADE05SA	5	Slide
ADE06	ADE06S	ADE06SA	6	Slide
ADE07	ADE07S	ADE07SA	7	Slide
ADE08	ADE08S	ADE08SA	8	Slide
ADE09	ADE09S	ADE09SA	9	Slide
ADE10	ADE10S	ADE10SA	10	Slide
ADE12	ADE12S	ADE12SA	12	Slide

See Page A8 for PC Pad Layout.



ADF08S

Flush Actuator

"SA" Termination Shown

PC Term	"PC" Term. w/Tape.	"S" Term.	"S" Term. w/Tape Seal	"SA" Term.	"SA" Term. w/Tape Seal	No. of Positions	Actuator Style
ADF02	ADF02T	ADF02S	ADF02ST	ADF02SA	ADF02SAT	2	Slide
ADF03	ADF03T	ADF03S	ADF03ST	ADF03SA	ADF03SAT	3	Slide
ADF04	ADF04T	ADF04S	ADF04ST	ADF04SA	ADF04SAT	4	Slide
ADF05	ADF05T	ADF05S	ADF05ST	ADF05SA	ADF05SAT	5	Slide
ADF06	ADF06T	ADF06S	ADF06ST	ADF06SA	ADF06SAT	6	Slide
ADF07	ADF07T	ADF07S	ADF07ST	ADF07SA	ADF07SAT	7	Slide
ADF08	ADF08T	ADF08S	ADF08ST	ADF08SA	ADF08SAT	8	Slide
ADF09	ADF09T	ADF09S	ADF09ST	ADF09SA	ADF09SAT	9	Slide
ADF10	ADF10T	ADF10S	ADF10ST	ADF10SA	ADF10SAT	10	Slide

See Page A8 for PC Pad Layout and "L" Dimensions.

Need more technical information?

Contact your local ABE office--(800) 453-1692--or AboveBoardElectronics.com

Above Board Electronics
 1918 Junction Avenue
 San Jose, CA 95131

AD Series *Piano Style Dip Switches* Auto-Insertable and Surface Mountable

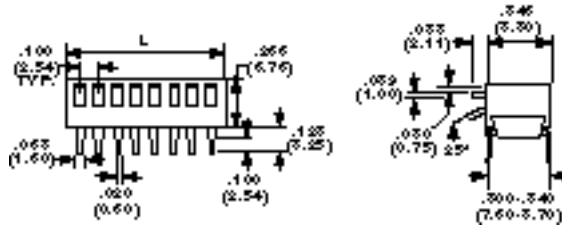
ADP



ADP04S

Piano Actuator

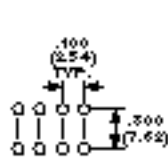
"PC" Termination Shown



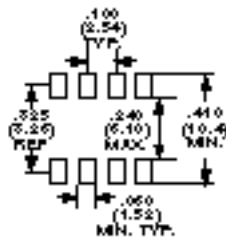
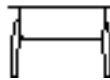
Poles	Bodylength 'L'	Poles	Bodylength 'L'
2	0.278" (7.06mm)	7	0.778" (19.76mm)
3	0.378" (9.60mm)	8	0.878" (22.30mm)
4	0.478" (12.14mm)	9	0.978" (24.84mm)
5	0.578" (14.68mm)	10	1.078" (27.38mm)
6	0.678" (17.22mm)		

Lever Down "On"	Lever Up "On"	Lever Down "On"	Lever Up "On"	Lever Down "On"	Lever Up "On"	No. of Positions	Actuator Style
ADP02	ADPA02	ADP02S	ADPA02S	ADP02SA	ADPA02SA	2	Piano
ADP04	ADPA04	ADP04S	ADPA04S	ADP04SA	ADPA04SA	4	Piano
ADP05	ADPA05	ADP05S	ADPA05S	ADP05SA	ADPA05SA	5	Piano
ADP06	ADPA06	ADP06S	ADPA06S	ADP06SA	ADPA06SA	6	Piano
ADP07	ADPA07	ADP07S	ADPA07S	ADP07SA	ADPA07SA	7	Piano
ADP08	ADPA08	ADP08S	ADPA08S	ADP08SA	ADPA08SA	8	Piano
ADP09	ADPA09	ADP09S	ADPA09S	ADP09SA	ADPA09SA	9	Piano
ADP10	ADPA10	ADP10S	ADPA10S	ADP10SA	ADPA10SA	10	Piano

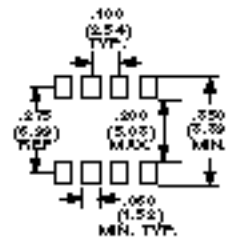
TERMINATION OPTIONS



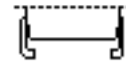
PC Termination



S Termination



SA Termination



Low Profile/Hybrid Dip Switch **AR Series**

AUTO-INSERTABLE* DIP SWITCH WITH INTEGRAL RESISTORS

SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

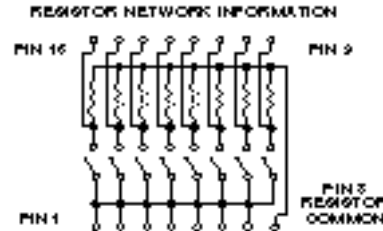
* Flush actuator versions (are auto-insertable only)

FEATURES:

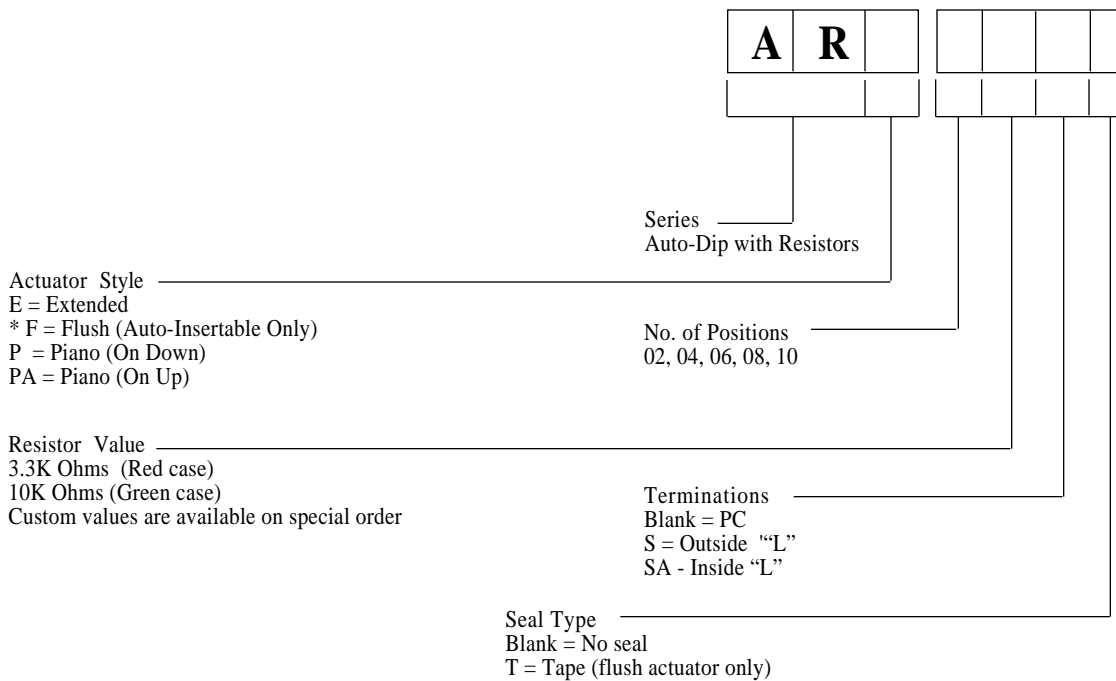
All the features of the AD SERIES - PLUS

- Thick film pull-up resistors molded into the base of the switch.
- Replaces discrete resistor network plus DIP Switch with one component.
- Available with 3.3K ohms or 10K ohms resistors.
- Ceramic substrate allows wave soldering temperatures of 245°C for up to 30 seconds per MIL-STD 202, Method 210
- Custom resistor values available.

Rated Pwr.	Resistance	Tolerance	Max. Voltage
125 mW	3.3K Ohms (red)	±5% at 85°C	24V
125 mW	10K Ohms (green)	±5% at 85°C	24V



HOW TO ORDER



Example: ARF 06 10KST = Auto-Dip
 Flush actuator
 06 positions
 10K ohms resistors
 Outside "L" terminations & tape seal

Need more technical information?

Contact your local ABE office--(800) 453-1692--or AboveBoardElectronics.com

Above Board Electronics
 1918 Junction Avenue
 San Jose, CA 95131

ATT Series *Digital Dip Attenuators*

FEATURES:

- Thick film resistor network molded into base switch.
- Replaces discrete resistor and thumbwheel type attenuators with one component.
- Auto-insertable using Panasert insertion equipment.

SEE PAGE A7 FOR PRODUCT SPECIFICATION

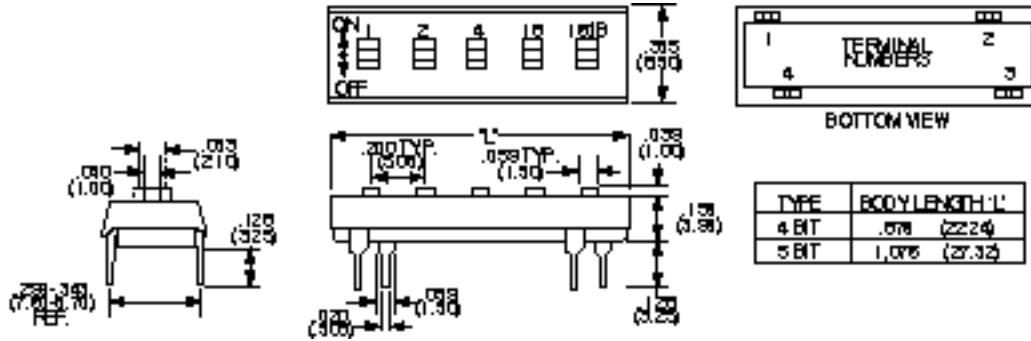
- Available with 4 or 5 bit and 50, 75, 150, 300 or 600 Ohms unbalanced T network.

Note: Switches to be soldered in the neutral position, as received.

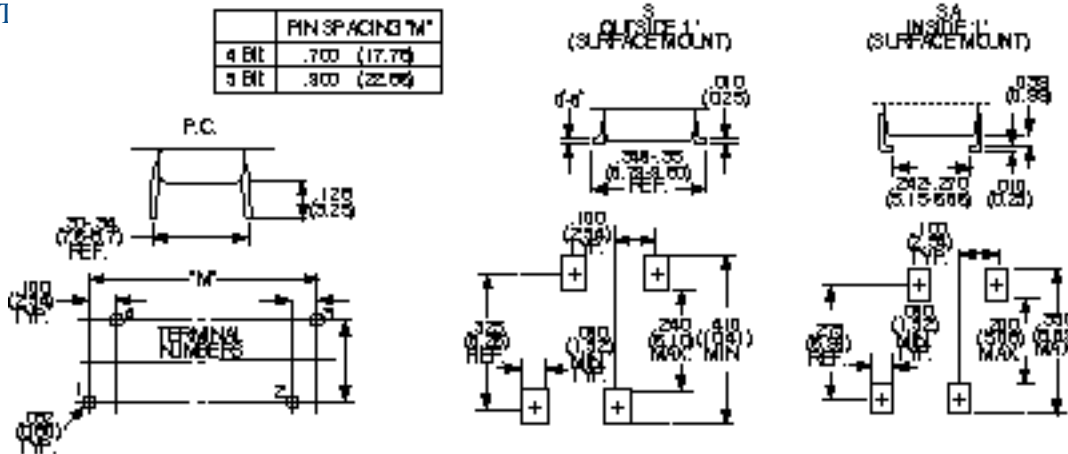
ATT



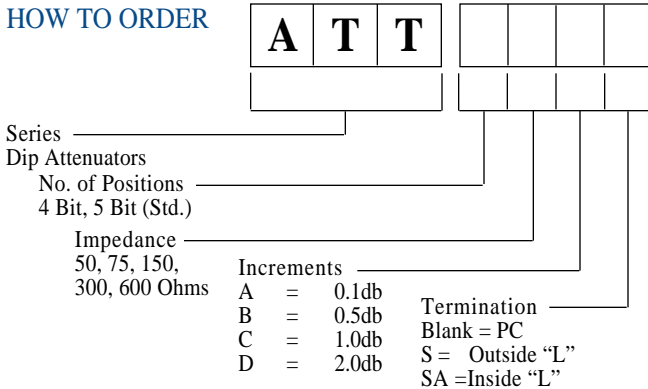
ATT5150C



TERMINATION OPT

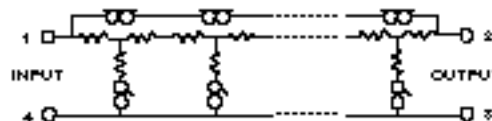


HOW TO ORDER



Case	Imped	Freq.	Rts. Input Power	db Tol. Range
Red	50	30MHZ	50mW	.1-4db ± .025db
Orange	75	5MHZ		.5-2db ± .05db
Green	150	1MHZ		10-15db ± .15db
Blue	300	500KHZ		16-24db ± .20 db
Black	600	200KHZ		25-30db ± .35 db 31 db ± .50db

Attenuator Network Information



CIRCUIT DIAGRAM (T TYPE UNBALANCED) (SHOWN IN THE OFF POSITION)

Example: ATT 4600A = Dip Attenuator
 4 Bit
 600 Ohms impedance
 1 db increments (customer is able to introduce from 1 db up to 15 db into a circuit)
 PC terminations