

# SMT TR series

Surface mount subminiature washable  
rocker switches



## DISTINCTIVE FEATURES

Tape and reel packaging

Reflow solderable

Available with positioning pins

Protected against electrostatic discharges (ESD) up to 10 KV

Washable



## ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Moisture resistance : 21 days per IEC 512-6 test 11c
- Vibration resistance : 10-500 Hz / 10 g per IEC 512-4 test 6d
- Shock resistance : 50 g per IEC 512-4 test 6c



## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :  
0.4 VA 20 V max. AC or DC
- Minimum load : 10 mA 50 mV or 10 µA 5 VDC
- Initial contact resistance : 20 mΩ max
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength :  
1,000 Vrms. 50 Hz min. between terminals and frame  
500 Vrms. 50 Hz min. between terminals
- Electrical life at full load :  
- 2 position switches : 60,000 cycles  
- 3 position switches : 30,000 cycles
- Static resistance : 10 KV (Schaffner equipment)



## MATERIALS

- Case : high temperature plastic material UL94-V0
- Actuator : high temperature plastic rocker
- Ground plate and positioning pins : steel, tin plated
- Contacts : brass, gold plated
- Terminals : brass, with pure tin plating over nickel barrier

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

The company reserves the right to change specifications without notice.



# SMT TR series

Surface mount subminiature washable rocker switches

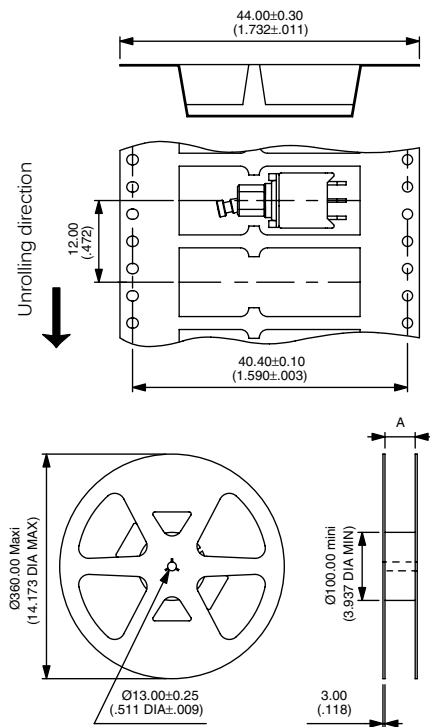


## SOLDERING AND CLEANING

- Reflow soldering : infrared, vapor phase or infrared convection
- Washable per IEA-RS448-2 :
  - water + detergent - preferred
  - solvents
- Further information on reflow soldering : see "Technical information" on website.



## PACKAGING



Tape width	24.00 (.944)	44.00 (1.732)
Reel (dimension A)	24.40+2.00/0.00 (.960+.078/.000)	44.40+2.00/0.00 (1.748+.078/.000)

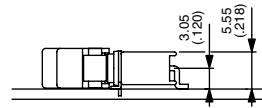
Standard packaging unit : 700 pieces

Tape meeting international standard IEC - Publication 286-3 (EIA481A)

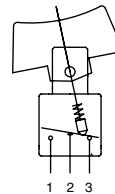
Start leader : 400 mm min.



## MOUNTING



## ELECTRICAL FUNCTIONS



# SMT TR series

Surface mount subminiature washable rocker switches

## WITHOUT POSITIONING PINS



TR36WS80000	ON	-	ON
TR39WS80000	ON	OFF	ON
TR37WS80000	MOM	OFF	MOM
TR38WS80000	ON	OFF	MOM
TR32WS80000	ON	-	MOM

Supplied without rocker.

## WITH POSITIONING PINS



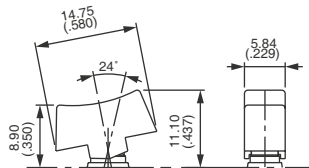
TR36WS80065	ON	-	ON
TR39WS80065	ON	OFF	ON
TR37WS80065	MOM	OFF	MOM
TR38WS80065	ON	OFF	MOM
TR32WS80065	ON	-	MOM

Supplied without rocker.

## ROCKERS

Order separately.

U4700



For rocker colors, replace last "0" by number :

1	Blue	5	Yellow
1/4	Dark blue	6	Red
2	Black	7	Ivory
3	Green	7/1	White
4	Grey	9	Orange

