

RoHS Compliant



Series 220

7x7mm Compact Rotary DIP Switch

- Robust metal bracket design
- Standard through hole and surface mount gull-wing terminal configurations
- Binary coded decimal, Hexadecimal code and Single pole output
- Clockwise or counterclockwise rotation



Ordering Information

Series	Terminal Type		Actuator Height		mber of sitions	Packaging Type
220	AM		Α		04	R
	•		•		-	
Code	Spec.	Code	Spec.		-	
	<u>'</u>	A	Flush arrow roto		.	
AM v	Surface mount gull wing,	В	Knurled, slotted, shaft	flatted		
	3.8mm height	С	Knurled, slotted	shaft	-	
	Standard through		,		· ↓	
	hole,			Code	Spec.	
	3.6mm height			04	4 Positions	
				10	10 Positions	
				16	16 Positions	

Code	Spec.
Blank	Tube packaging only for through hole terminals
R	Tape & reel packaging only for surface mount terminals

Notes: Contact CTS for other common features not listed.



Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
	Binary coded decimal		10	
Output	Hexadecimal		16	position
	Single pole		4	p = = ::
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	1000		megohms
Dielectric Strength	250 Vac between adjacent switches		1	minute
			100	mA
Nonswitching Rating			or	or
			50	VDC
Load		1μΑ		
		20m		VDC

Mechanical and Environmental

	Maximum reflow temperature, 260°C for 5 seconds			
Soldering	Maximum wave temperature, 260°C for 10 seconds			
_	Maximum manual temperature, 350°C for 4 seconds			
RoHS	Lead-Free. Fully compliant to RoHS			
Rotational Torque:	40~200 gf-cm			
Actuation Life	10,000 steps			
Marking:	Special top marking available-consult CTS			
Dackaging :	Standard anti-static tube packaging for through hole terminal			
Packaging:	Standard tape and reel packaging for gull wing terminal			
Operating Temperature	-40°C to +85°C			
Range	-40 C t0 +65 C			
Storage Temperature	-40°C to +85°C			
Range:	-40 C to +63 C			



Mechanical Specifications

Figure 1 – 220AM 10, 16R - Surface Mount Gull Wing, 10 and 16 Position

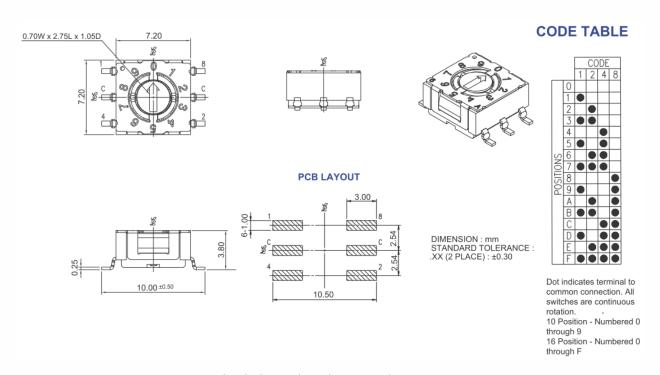


Figure 2 – 220AD_10, 16 - Standard Through Hole, 10 and 16 Position

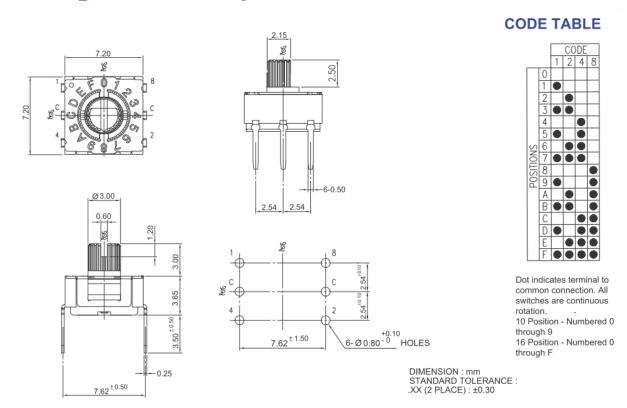




Figure 3 – 220AM_04R - Surface Mount Gull Wing, 4 Position

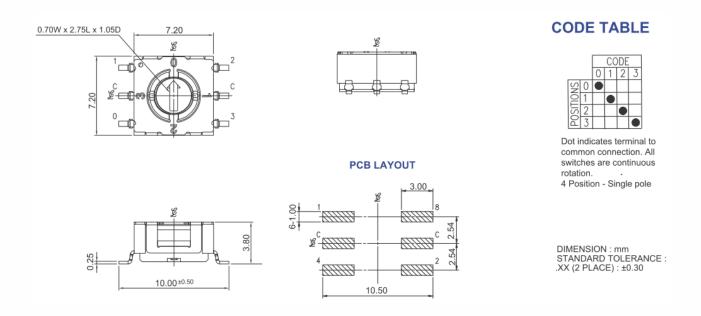
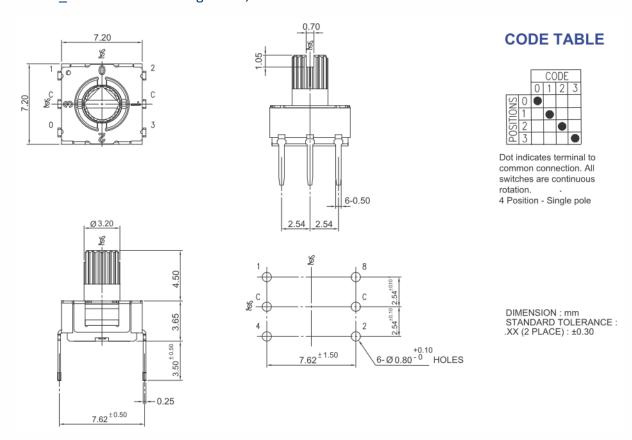
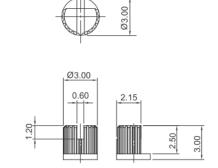


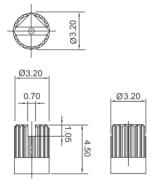
Figure 4 – 220AD 04 - Standard Through Hole, 4 Position





Actuator Options





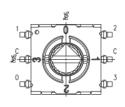
A: FLUSH ARROW ROTOR

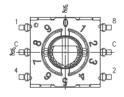
B: KNURLED, SLOTTED, FLATTED SHAFT

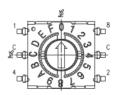
C: KNURLED, SLOTTED SHAFT

DIMENSION : mm STANDARD TOLERANCE : .XX (2 PLACE) : ±0.30

Position Options







04: 4 POSITIONS

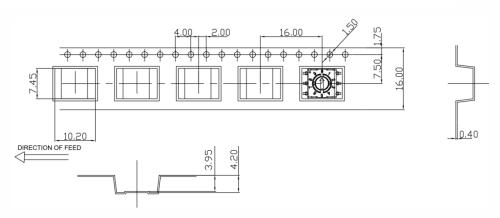
10: 10 POSITIONS

16: 16 POSITIONS

Packing: Tape and Reel

TAPE :₽

(A) 220AMAxxR -MATERIAL& DIMENSIONS:





MATERIAL: CONDUCTIVE POLYSTYRENE, BLACK COLOR

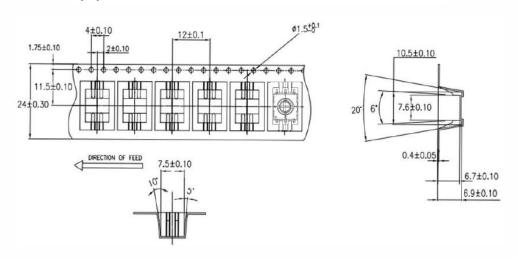
ALL DIMENSIONS MEET EIA-481-2A REQUIREMENTS

CARRIER TAPE THICKNESS: 0.40±0.05MM.

PACKING LENGTH PER 13"REEL: 16.6 METERS. COMPONENT LOADED PER 13"REEL: 1038 PCS.

SPQ: 1000 PCS/ REEL.

(B) 220AMBxxR - MATERIAL & DIMENSIONS:



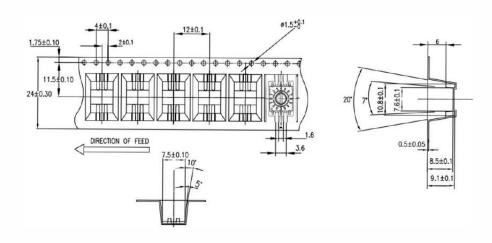
MATERIAL: ANTI-STATIC POLYSTYRENE, TRANSPARENT, BLACK COLORALL DIMENSIONS MEET EIA-481-B REQUIREMENTS.

CARRIER TAPE THICKNESS: 0.40±0.05MM.

PACKING LENGTH PER 13"REEL: 8.93 METERS. COMPONENT LOADED PER 13"REEL: 744 PCS.

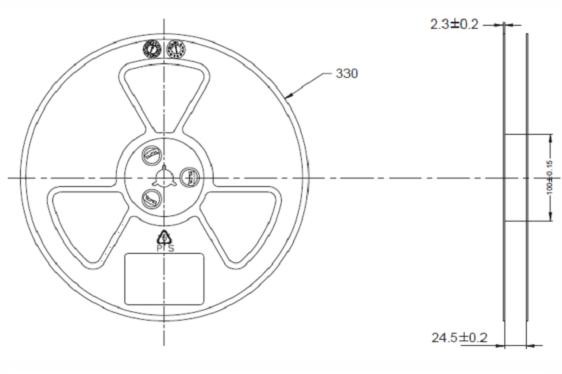
SPQ: 700 PCS/REEL

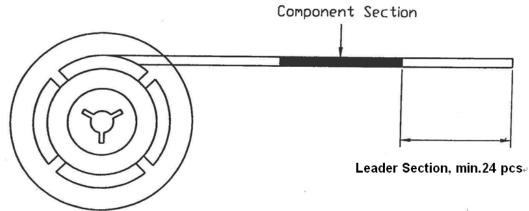
(C) 220AMCxxR - MATERIAL & DIMENSIONS:





(A) SPECIFIED REEL PARTS DIMENSIONS: (COMMON TO ALL SMT COMPONENTS)

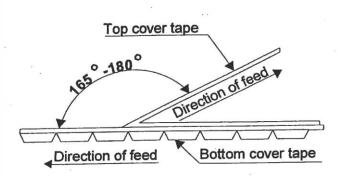




TAPE BREAK FORCE, PEEL STRENGTH AND ANGLE: REQUIRED SETTINGS:

- TOP COVER TAPE PEEL FORCE: 10 ~ 140 gm
- ANGLE BETWEEN THE TOP COVER TAPE AND THE DIRECTION OF FEED DURING PEEL OFF: 165° ~ 180°





Embossed Carrier Tape

THE COVER TAPES MAY NOT EXTEND OVER THE DEGE OF THE CARRIER TAPE OR COVER ANY PART OF THE SPROCKETS HOLES.