

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

Serie	s Terminal Type		Actuator Height psitions	Nu	mber of Type	Packaging
220	AM		Α		04	R
			•			
Code	Spec.	Code	Spec.			
Coue	<u> </u>	A	Flush arrow rotor			
AM	Surface mount gull wing,	В	Knurled, slotted, fl shaft	atted		
	3.8mm height	C	Knurled, slotted sh	aft		
	Standard through				\	
AD	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 surfact mount terminals

Notes: Contact CTS for other common features not listed.



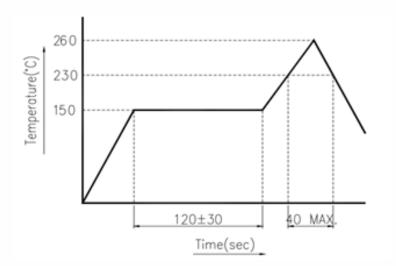
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit	
	Binary coded decimal		10		
Output	Hexadecimal		16	position	
	Single pole		4		
Contact Resistance			100	milliohms	
nsulation 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			
Loau		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	

Soldering Profile





Mechanical Specifications

Figure 1 – 220AM_10, 16R - Surface Mount Gull Wing, 10 and 16 Position

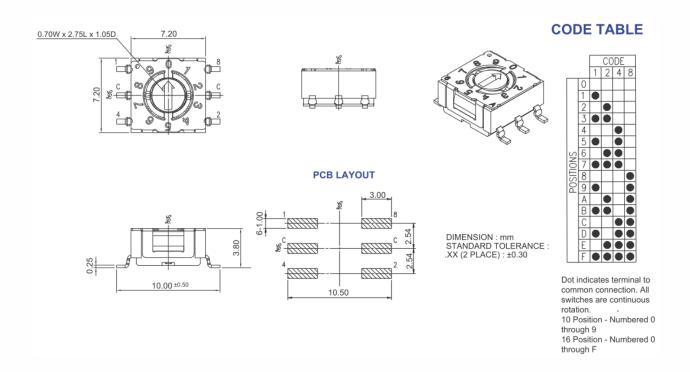




Figure 2 – 220AD_10, 16 - Standard Through Hole, 10 and 16 Position

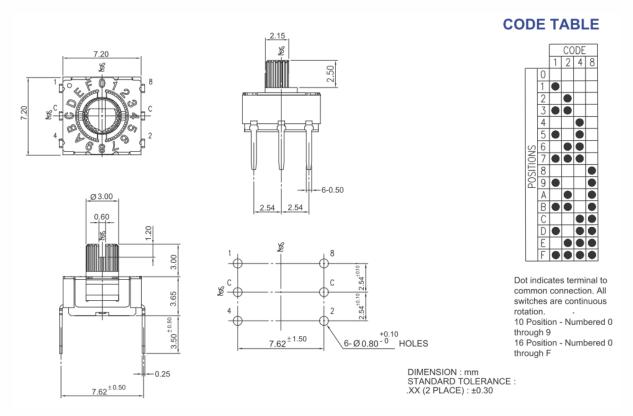


Figure 3 – 220AM 04R - Surface Mount Gull Wing, 4 Position

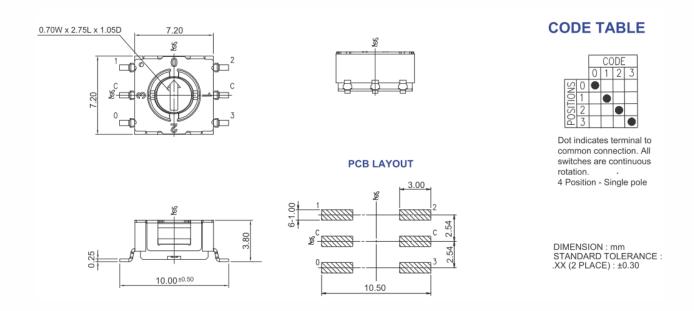
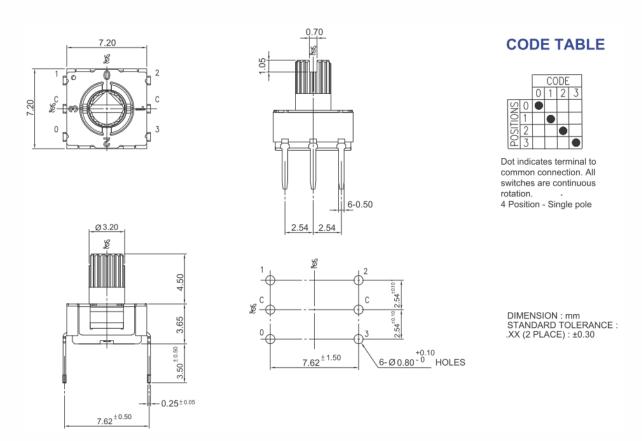
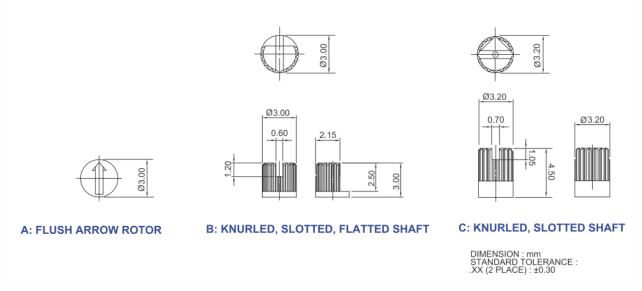




Figure 4 – 220AD_04 - Standard Through Hole, 4 Position

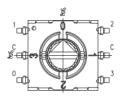


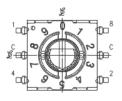
Actuator Options





Position Options







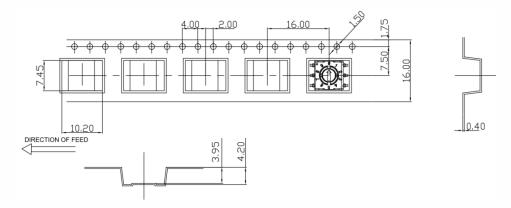
04: 4 POSITIONS 10: 10 POSITIONS

16: 16 POSITIONS

Packing: Tape and Reel

TAPE :₽

(A) 220AMAXXR -MATERIAL DIMENSIONS:



MATERIAL: CONDUCTIVE POLYSTYRENE, BLACK COLOR-ALL DIMENSIONS MEET EIA-481-2A REQUIREMENTS-

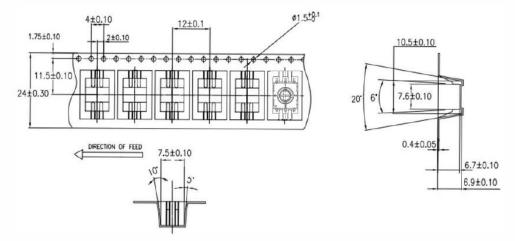
CARRIER TAPE THICKNESS: 0.40±0.05MM.

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

SPQ: 1000 PCS/ REEL

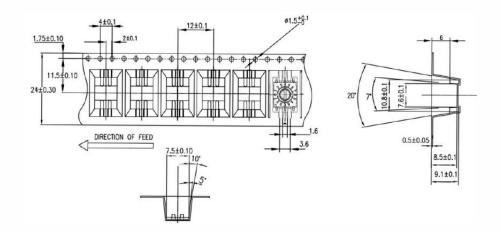
(B) 220AMBxxR - MATERIAL & DIMENSIONS:





MATERIAL: ANTI-STATIC POLYSTYRENE, TRANSPARENT, BLACK COLOR-ALL 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-

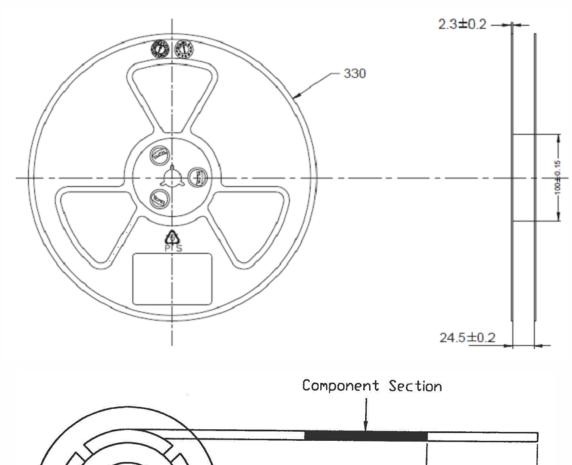
(C) 220AMCxxR - MATERIAL & DIMENSIONS:



REEL:

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



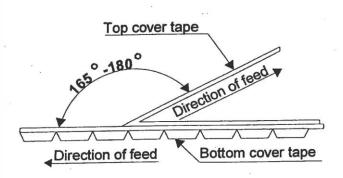


TAPE BREAK FORCE, PEEL STRENGTH AND ANGLE: REQUIRED SETTINGS:

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

Leader Section, min.24 pcs-





Embossed Carrier Tape

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