

Ordering Information

Series	s Terminal Type		Actuator Height psitions	Nu	mber of Type	Packaging
220	AM		А		04	R
			•			
Code	Spec.	Code	Spec.			
couc		A	Flush arrow rotor			
AM	Surface mount gull wing,	В	Knurled, slotted, fl shaft	atted		
	3.8mm height	C	Knurled, slotted sh	aft		
AD	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 surfact mount terminals

Notes: Contact CTS for other common features not listed.



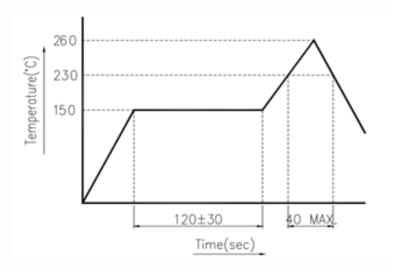
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
	Binary coded decimal		10	
Output	Hexadecimal		16	nosition
Output				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
Ionswitching Rating			or	or
			50	VDC
load		1μΑ		
.uau		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	
Packaging :	Standard anti-static tube packaging for through hole terminal	
Fackaging .	Standard tape and reel packaging for gull wing terminal	
Operating Temperature	-40°C to +85°C	
Range		
Storage Temperature	-40°C to +85°C	
Range:	-40 C t0 +85 C	

Soldering Profile



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Mechanical Specifications

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

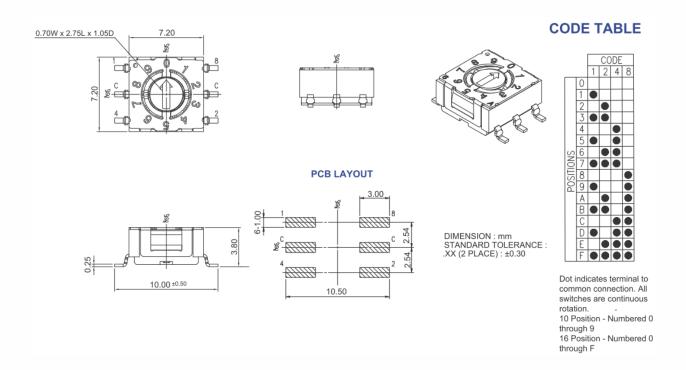




Figure 2 – 220AD_10, 16 - Standard Through Hole, 10 and 16 Position

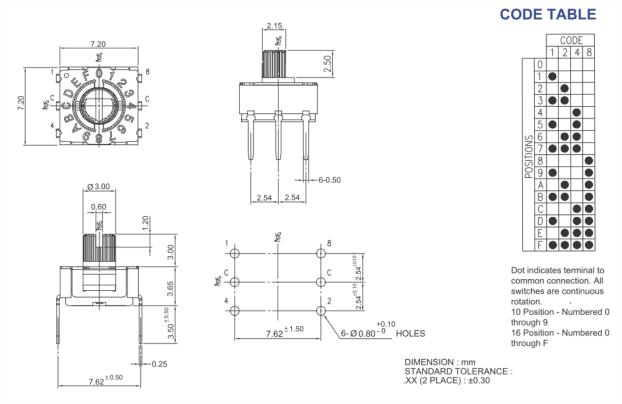
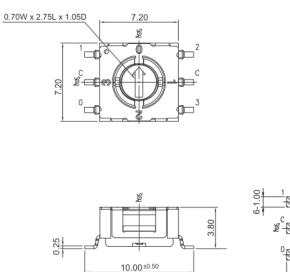
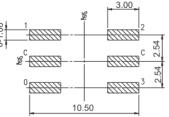


Figure 3 – 220AM_04R - Surface Mount Gull Wing, 4 Position





PCB LAYOUT



CODE TABLE



Dot indicates terminal to common connection. All switches are continuous rotation. 4 Position - Single pole

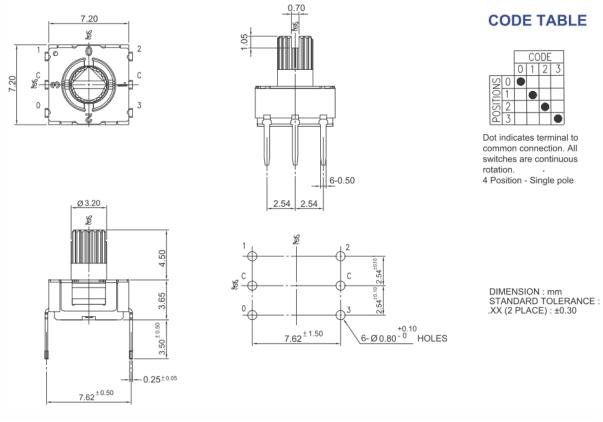
DIMENSION : mm STANDARD TOLERANCE : .XX (2 PLACE) : ±0.30

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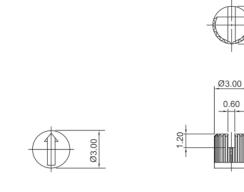
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Figure 4 – 220AD_04 - Standard Through Hole, 4 Position



Actuator Options



A: FLUSH ARROW ROTOR

B: KNURLED, SLOTTED, FLATTED SHAFT

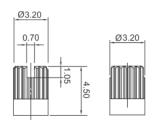
0.60

Ø3.00

2.15

2.50 3.00





C: KNURLED, SLOTTED SHAFT

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

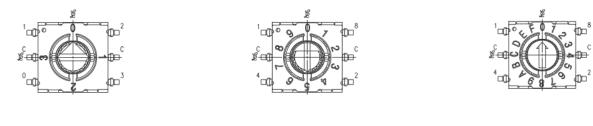
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Position Options

Series 220 Rotary DIP Switch



04: 4 POSITIONS

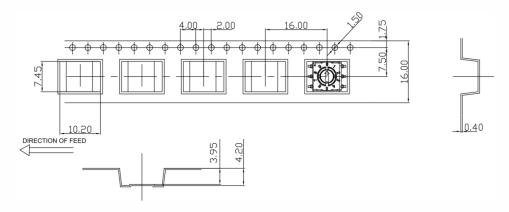
10: 10 POSITIONS

16: 16 POSITIONS

Packing: Tape and Reel

TAPE :..

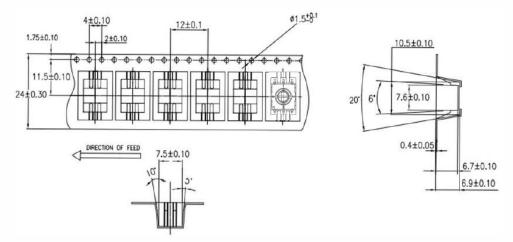
(A) 220AMAxxR -MATERIAL& DIMENSIONS:



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

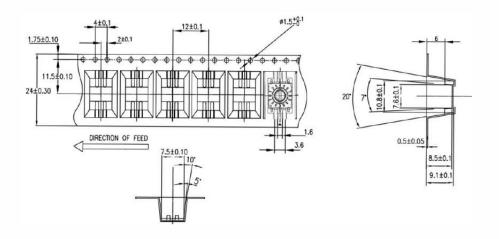
(B) 220AMBxxR - MATERIAL & DIMENSIONS:





MATERIAL: ANTI-STATIC POLYSTYRENE, TRANSPARENT, BLACK COLOR ALL DIMENSIONS MEET EIA-481-B REQUIREMENTS CARRIER TAPE THICKNESS: 0.40±0.05MM. PACKING LENGTH PER 13 "REEL: 8.93 METERS. COMPONENTLOADED PER 13 "REEL: 744 PCS. SPQ: 700 PCS/REEL

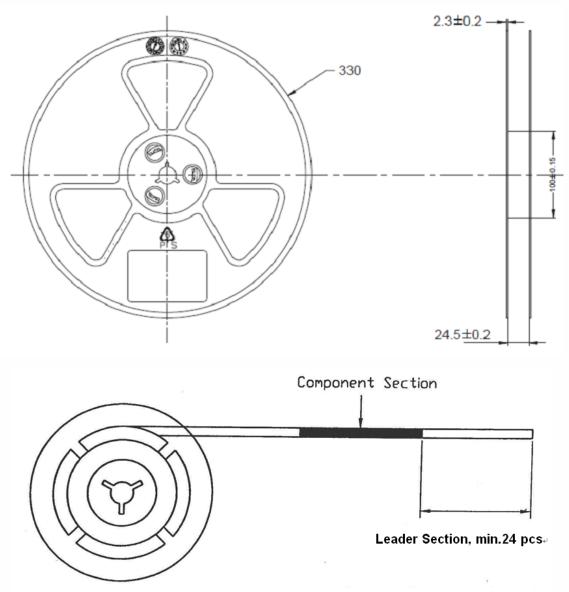
(C) 220AMCxxR - MATERIAL & DIMENSIONS:+



REEL:

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

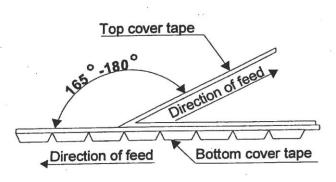




TAPE BREAK FORCE, PEEL STRENGTH AND ANGLE: REQUIRED SETTINGS :

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





Embossed Carrier Tape

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

Mouser Electronics

Authorized Distributor

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CTS:

 220AMA16R
 220ADA10
 220AMA10R
 220ADC16
 220AMC16R
 220ADC10
 220AMC10R
 220ADA16
 220AMA04R

 220ADA04
 220ADB10
 220ADC04
 220AMB10R
 220AMB16R
 220AMC04R
 220ADB04
 220ADB16
 220AMB04R