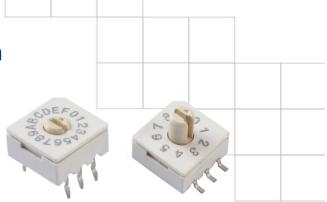
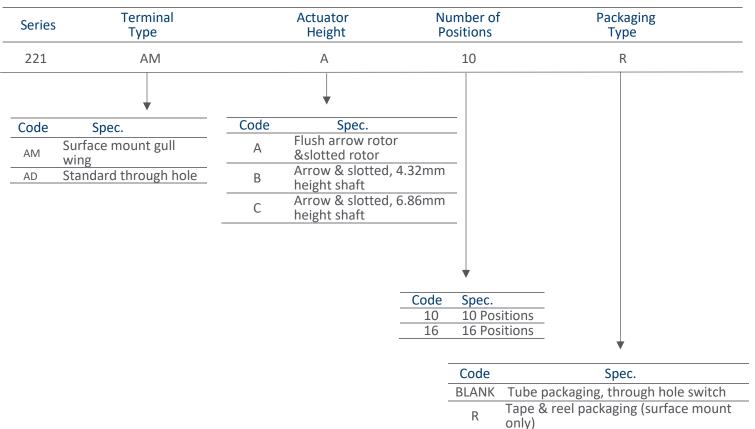


# Series 221 10x10mm Compact Rotary DIP Switch

- Standard through hole and surface mount gull-wing terminal configurations
- Binary coded decimal, Hexadecimal code output
- Clockwise or counterclockwise rotation
- Suitable for board spray washing



## **Ordering Information**



Notes: Contact CTS for other common features not listed.

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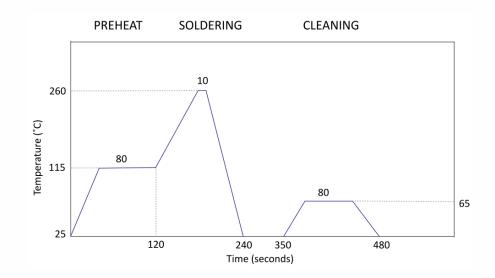
# **Electrical Specifications**

Parameter	Conditions & Remarks Min		Max	Unit	
Output	Binary coded decimal Hexadecimal	10 16	position		
Contact Resistance			80	milliohms	
Insulation Resistance	Between insulated terminals	ed terminals 1000			
Dielectric Strength	350 Vac between adjacent switches	rent 1			
Actuation Life			20,000	steps	
			100	mA	
Nonswitching Rating			or	or	
			50	Vdc	
Lood		1μΑ			
Load		20m		VDC	

### **Mechanical and Environmental**

	Maximum reflow temperature, 260°C for 10 seconds		
Soldering	Maximum wave temperature, 260°C for 10 seconds		
	Maximum manual temperature, 350°C for 5 seconds		
RoHS	Lead-Free. Fully compliant to RoHS		
Rotational Torque:	144~432 gf-cm		
Marking:	Special top marking available-consult CTS		
Packaging:	Standard anti-static tube packaging for through hole terminal		
	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:			

#### **Soldering Profile**





## **Mechanical Specifications**

Figure 1 – Surface Mount Gull Wing

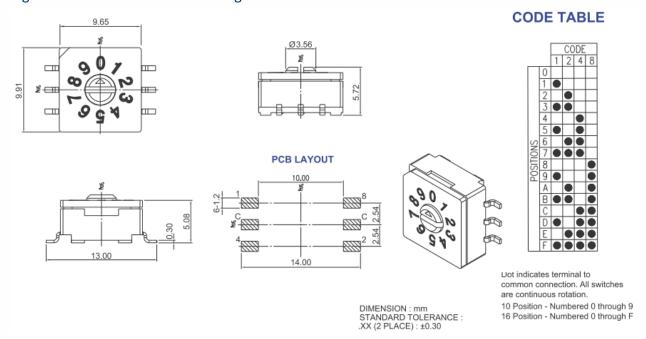
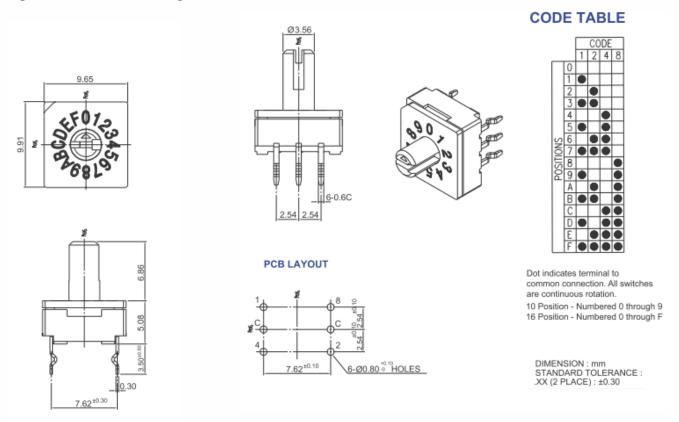
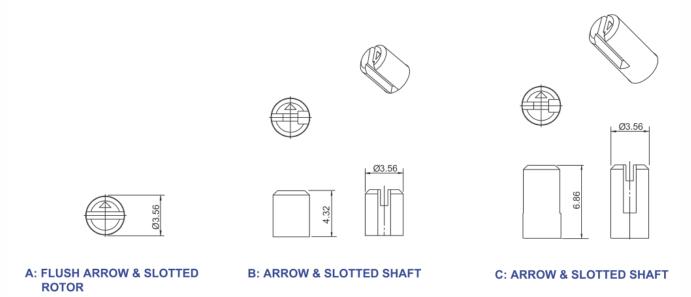


Figure 2 – Standard Through Hole



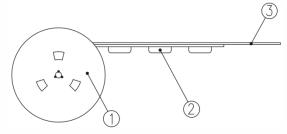




## **Packing: Tape and Reel**

The packing specifications:

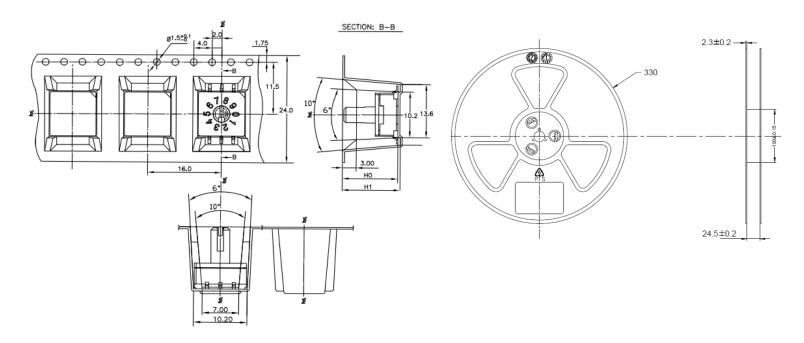
1. Structure and materials:



No	PART NAME	MATERIAL
1	REEL	POLYSTYRENE
2	CARRIER TAPE	POLYSTYRENE
3	COVER TAPE	POLYESTER

- 2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- 3. Shortage of less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
- 4. Stripping strength of cover tape is between 10 gf to 130 gf and stripping angle should be within  $165^{\circ}180^{\circ}$ .
- 5. The product in the pocket of carrier tape should be placed in a specified correct position.
- 6. Tape and reel per EIA-481.
- 7. Dimensions:





				Unit: mm
	НО	H1	Product	Package
CTS P/N			total	quantity
			height	(Pcs/reel)
221AMAxxR	5.92	6.42	5.72	700
221AMBxxR	9.60	10.10	9.40	450
221AMCxxR	12.14	12.64	11.94	350

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94HAB10RAT 94HAB08WT ERD216RSZ ND3FR10P DRR3110 S-4010TA 94HCB16WT 94HCB16T 94HCB10RAT 94HCB08T
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