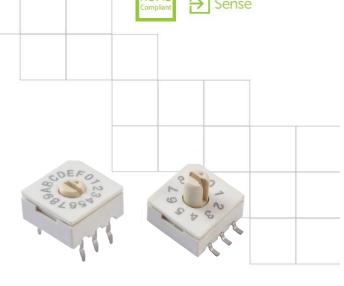
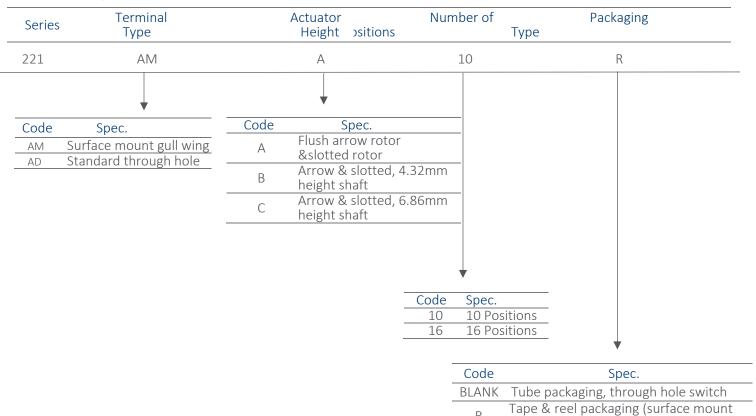


# Series 221 10x10mm Compact Rotary DIP Switch

- 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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only)



# **Electrical Specifications**

Parameter	Conditions & Remarks	Min	Max	Unit	
	Binary coded decimal		10	nosition	
Output	Hexadecimal		16		
Contact Resistance			80	milliohms	
Insulation Resistance	Between insulated terminals		megohms		
Dielectric Strength	350 Vac between adjacent switches	1	minute		
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		
Packaging:	Standard tape and reel packaging for gull wing terminal		
Operating Temperature	10°C +0 10°C		
Range:	-40°C to +85°C		
Storage Temperature Range:	-40°C to +85°C		



# **Mechanical Specifications**

Figure 1 – Surface Mount Gull Wing

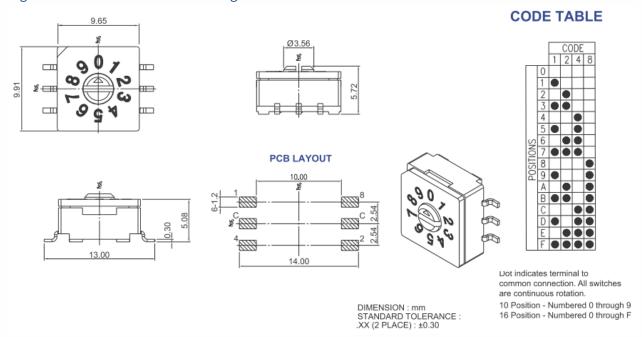
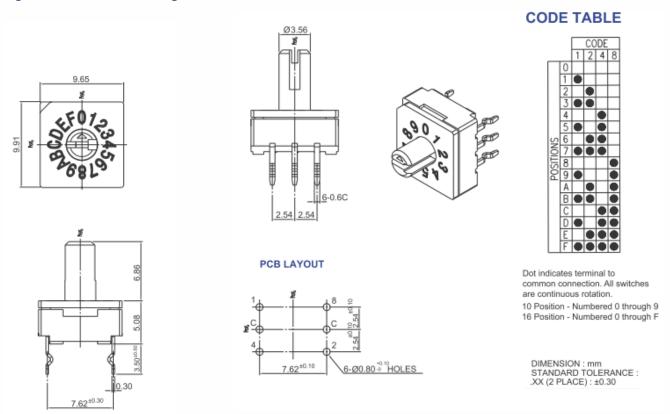


Figure 2 – Standard Through Hole



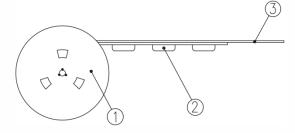


# A: FLUSH ARROW & SLOTTED B: ARROW & SLOTTED SHAFT C: ARROW & SLOTTED SHAFT

### **Packing: Tape and Reel**

The packing specifications:

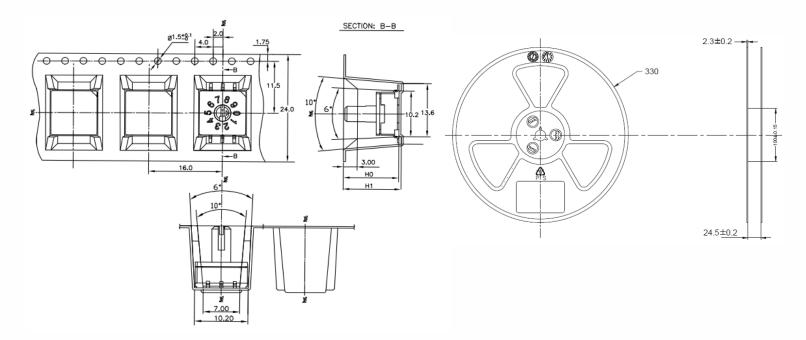
1. Structure and materials:



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