

# C7 - SERIES

## SPECIFICATIONS AND ORDERING INFORMATION

2 1/32" DIAMETER 1.0 AMP @ 28 VDC

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. Our standard design offers 15° indexing, and solder lug terminals.



### SPECIFICATIONS

#### ELECTRICAL

**Current and Voltage Rating:** Make and break resistive load 1.0 amp @ 28 VDC; 0.5 amp @ 125 VAC.  
**Current Carrying Capacity:** 25 amps.  
**Dielectric Strength:** 1,000 VAC between current carrying parts and ground.  
**Contact Resistance:** Average initial 3 milliohms.  
**Insulation Resistance:** In excess of 10,000 megohms.

**Hardware:** Mounting nut and lockwasher are shipped assembled.

#### MECHANICAL

**Materials and Finishes:** All parts utilize non-corrosive materials as standard.  
**Terminals and Contacts:** Brass with silver plate as standard.  
**Insulation:** Diallyl phthalate.  
**Index:** Single-ball, hill and valley.  
**Index Life:** 25,000 cycles minimum.  
**Index Torque:** Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.  
**Index Angles:** 15° standard, 30°, 60°, and 90° available.  
**Index Stops:** Fixed standard, continuous, or adj. available.  
**Stop Strength:** 25 in. lbs. minimum.

### STANDARD PART NUMBER

#### 15° INDEXING - FIXED STOPS SOLDER LUG TERMINALS

| POLES | ACTIVE POSITIONS | POLES/DECK | NO. OF DECKS | SHORTING | NON-SHORTING | FIG. * |
|-------|------------------|------------|--------------|----------|--------------|--------|
| 01    | 23               | 1          | 1            | C7D0123S | C7D0123N     | CF     |
| 02    | 23               | 1          | 2            | C7D0223S | C7D0223N     | CF     |
| 03    | 23               | 1          | 3            | C7D0323S | C7D0323N     | CF     |
| 04    | 23               | 1          | 4            | C7D0423S | C7D0423N     | CF     |

#### 30° INDEXING

|    |    |   |   |              |              |    |
|----|----|---|---|--------------|--------------|----|
| 01 | 12 | 1 | 1 | C7D0112S -30 | C7D0112N -30 | CA |
| 02 | 12 | 1 | 2 | C7D0212S -30 | C7D0212N -30 | CA |
| 03 | 12 | 1 | 3 | C7D0312S -30 | C7D0312N -30 | CA |

#### 15° INDEXING - CONTINUOUS ROTATION SOLDER LUG TERMINALS

| POLES | ACTIVE POSITIONS | POLES/DECK | NO. OF DECKS | SHORTING     | NON-SHORTING | FIG. * |
|-------|------------------|------------|--------------|--------------|--------------|--------|
| 01    | 24               | 1          | 1            | C7D0124S - C | C7D0124N - C | CG     |
| 02    | 24               | 1          | 2            | C7D0224S - C | C7D0224N - C | CG     |
| 03    | 24               | 1          | 3            | C7D0324S - C | C7D0324N - C | CG     |
| 04    | 24               | 1          | 4            | C7D0424S - C | C7D0424N - C | CG     |

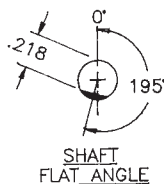
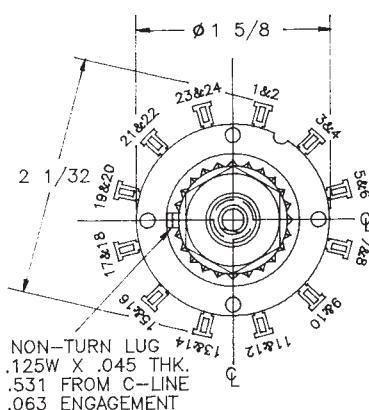
#### 30° INDEXING

|    |    |   |   |               |               |    |
|----|----|---|---|---------------|---------------|----|
| 01 | 12 | 1 | 1 | C7D0112S -30C | C7D0112N -30C | CA |
| 02 | 12 | 1 | 2 | C7D0212S -30C | C7D0212N -30C | CA |
| 03 | 12 | 1 | 3 | C7D0312S -30C | C7D0312N -30C | CA |

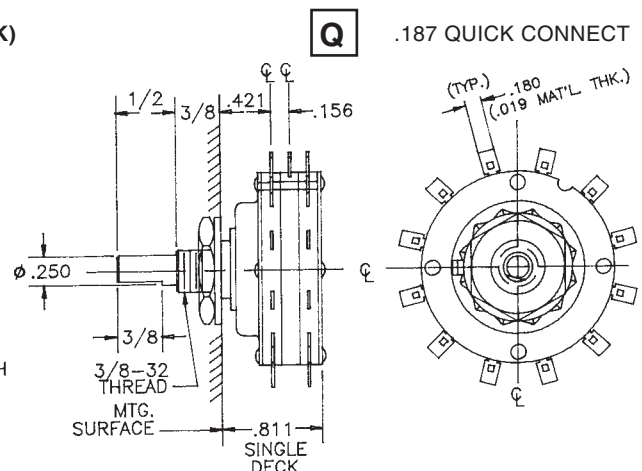
\* FIGURES ARE SHOWN ON PAGE 55.

### DIMENSIONS

#### STANDARD CONSTRUCTION - 15° INDEX ANGLE (3 WAFER DECK)



NOTE:  
 1. ONE DECK EQUALS THREE WAFERS.  
 2. ADD .468" FOR EACH ADDITIONAL DECK.

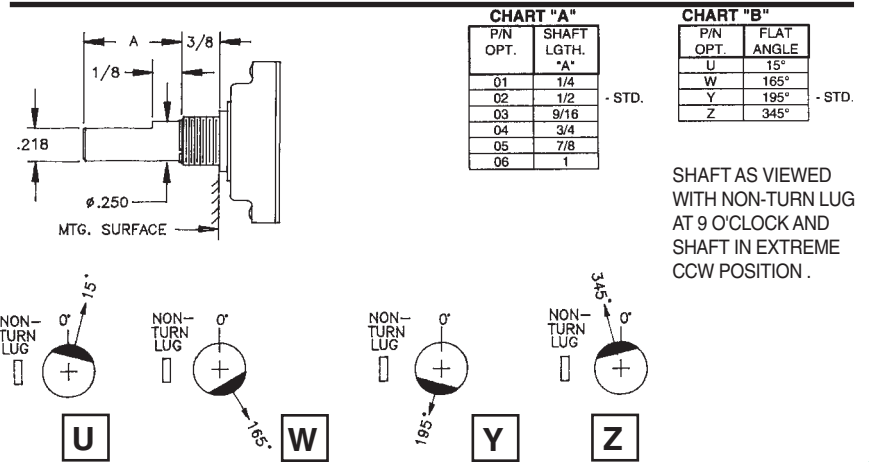


## How to Order Additional Options:

| 2 DIGIT SERIES                                                                                                                                                                                                                                                                                                                            | INSULATION TYPE | TOTAL POLES | ACTIVE POSITIONS                                   | CONTACT TYPE                        | TERMINAL TYPE                          | INDEX ANGLE       | STOP TYPE                                                                                    | SHAFT/ BUSHING | SHAFT FLAT    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------------------------------------|-------------------------------------|----------------------------------------|-------------------|----------------------------------------------------------------------------------------------|----------------|---------------|
| C7                                                                                                                                                                                                                                                                                                                                        | D - DIALLYL     | 01 - MIN.   | 24 - MAX @ 15°                                     | S - SHORTING<br>N - NON<br>SHORTING | L - SOLDER LUG<br>Q - QUICK<br>CONNECT | 15°               | F - FIXED<br>23 - POS. MAX<br>C - CONT.<br>24 - POS. MAX<br>A - Adjustable<br>A23 - POS. MAX | SEE CHART "A"  | SEE CHART "B" |
| C7                                                                                                                                                                                                                                                                                                                                        | D - DIALLYL     | 01 - MIN.   | 12 - MAX @ 30°<br>06 - MAX @ 60°<br>04 - MAX @ 90° | S - SHORTING<br>N - NON<br>SHORTING | L - SOLDER LUG<br>Q - QUICK<br>CONNECT | 30°<br>60°<br>90° |                                                                                              |                |               |
| <div> <div>CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS</div> <div> <div>C 7</div> <div>D</div> <div>(SPECIFY)</div> <div>(SPECIFY)</div> <div>(SPECIFY)</div> <div>(SPECIFY)</div> </div> <div>ADDITIONAL OPTIONS</div> <div> <div>(SPECIFY)</div> <div>(SPECIFY)</div> <div>(SPECIFY)</div> <div>(SPECIFY)</div> </div> </div> |                 |             |                                                    |                                     |                                        |                   |                                                                                              |                |               |

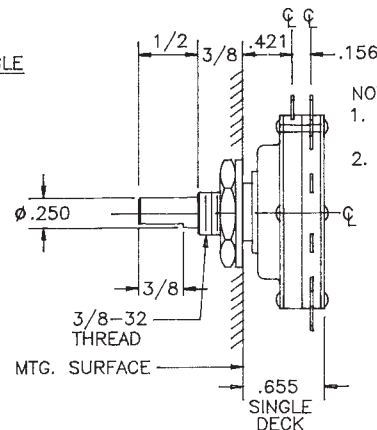
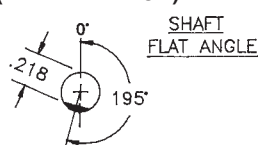
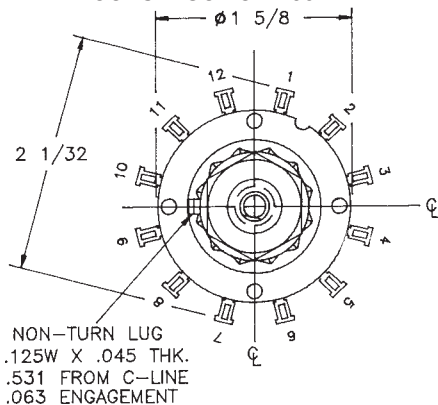
SHORTING AND  
NON-SHORTING  
SWITCHING IS  
NOT GUARANTEED  
ON THE 15° INDEXING  
C7 SERIES.

## SHAFT AND FLAT OPTIONS



## DIMENSIONS

### STANDARD CONSTRUCTION - 30° INDEX ANGLE (2 WAFER DECK)



- NOTE:
- ONE DECK EQUALS TWO WAFERS.
  - ADD .312" FOR EACH ADDITIONAL DECK.

CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.