



MATERIALS:  
CASE : HIGH TEMPERATURE PLOYSTER UL 94V-0.  
ACTUATOR BUTTON : THERMOPLASTIC.COLORS:SEE CHART BELOW  
MOVING CONTACT : COPPER ALLOY.GOLD PLATED OVER NICKEL.  
FIXED CONTACT : COPPER ALLOY.GOLD PLATED OVER NICKEL.  
TERMINALS : COPPER ALLOY.TIN LEAD PLATED.  
TERMINAL SEAL : SP EPOXY  
DP EPOXY OPTIONAL.

ELECTRICAL:  
CONTACT RATING : GOLD=0.4VA MAX. @ 20 VDC OR PEAK AC.  
INITIAL CONTACT RESISTANCE : 20 MILLIOHMS MAX.  
INSULATION RESISTANCE : 1.000MEGHOHMS @ 500VDC MIN.  
DIELECTRIC STRENGTH : 1.000VAC @ SEALEVEL.  
LIFE EXPECTANCY:GOLD : 1 POLES=100,000CYCLES.  
2 POLES=80,000 CYCLES.

MECHANICAL:  
 ACTUATION FORCE : TP11CG-PC.TP21CCG-PC : 9oz(.26kg)  
 TP11FG-PC.TP21FFG-PC : 12oz(0.34kg)  
 ACTUATION TRAVEL : .030 APPROX.

ENVIRONMENTAL:  
 OPERATING TEMPERATURE : -22°F TO +149°F(-30°C TO 65°C)  
 STORAGE TEMPERATURE : -22°F TO +149°F(-30°C TO +65°C)


NOTES:  
 1. INTERPRET DRAWING PER ASME Y14.5M-1994.

|     |        |
|-----|--------|
| (*) | COLORS |
| 0   | BLACK  |
| 2   | RED    |
| 6   | BLUE   |

RECOMMENDED HOLE LAYOUT  
TOLERANCE  $\pm .002$  UNLESS  
OTHERWISE MENTIONED

| MODEL NUMBER         | MODEL NUMBER              | ACTION        | FREE BUTTONS | DEPPRESSED BUTTONS |
|----------------------|---------------------------|---------------|--------------|--------------------|
| TP11CG-PC(*)<br>SPST | TP21CCG-PC(*)<br>2 X SPST | NORMALLY OPEN | NONE         | A TO C             |
| TP11FG-PC(*)<br>SPDT | TP21FFG-PC(*)<br>2 X SPDT | MOMENTARY     | B TO A       | B TO C             |

|                                                                                       |  |                                                                                                                           |  |                                                                                                |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN <u>B.BUCKHEIT</u> 16AUG77<br>CHK <u>B.B</u> 16NOV78                                                                   |  | <b>tyco</b><br><b>Electronics</b><br>Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608 |  |
| DIMENSIONS:<br>INCHES                                                                 |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -<br>3 PLC ± .010<br>4 PLC ± -<br>ANGLES ± 1' |  | NAME<br>PUSH BUTTON SWITCH<br>TP11CG/FG-PC(*) AND TP21CCG/FFG-PC(*)                            |  |
|  |  | PRODUCT SPEC<br>-<br>APPLICATION SPEC<br>-                                                                                |  | SIZE<br>A2                                                                                     |  |
| MATERIAL<br>SEE SPECIFICATIONS                                                        |  | FINISH<br>SEE SPECIFICATIONS                                                                                              |  | CAGE CODE<br>00779                                                                             |  |
|                                                                                       |  | WEIGHT<br>-                                                                                                               |  | DRAWING NO<br>C-1437571-4                                                                      |  |
| CUSTOMER DRAWING                                                                      |  |                                                                                                                           |  | SCALE 4:1<br>SHEET 1 of 1<br>REV B                                                             |  |