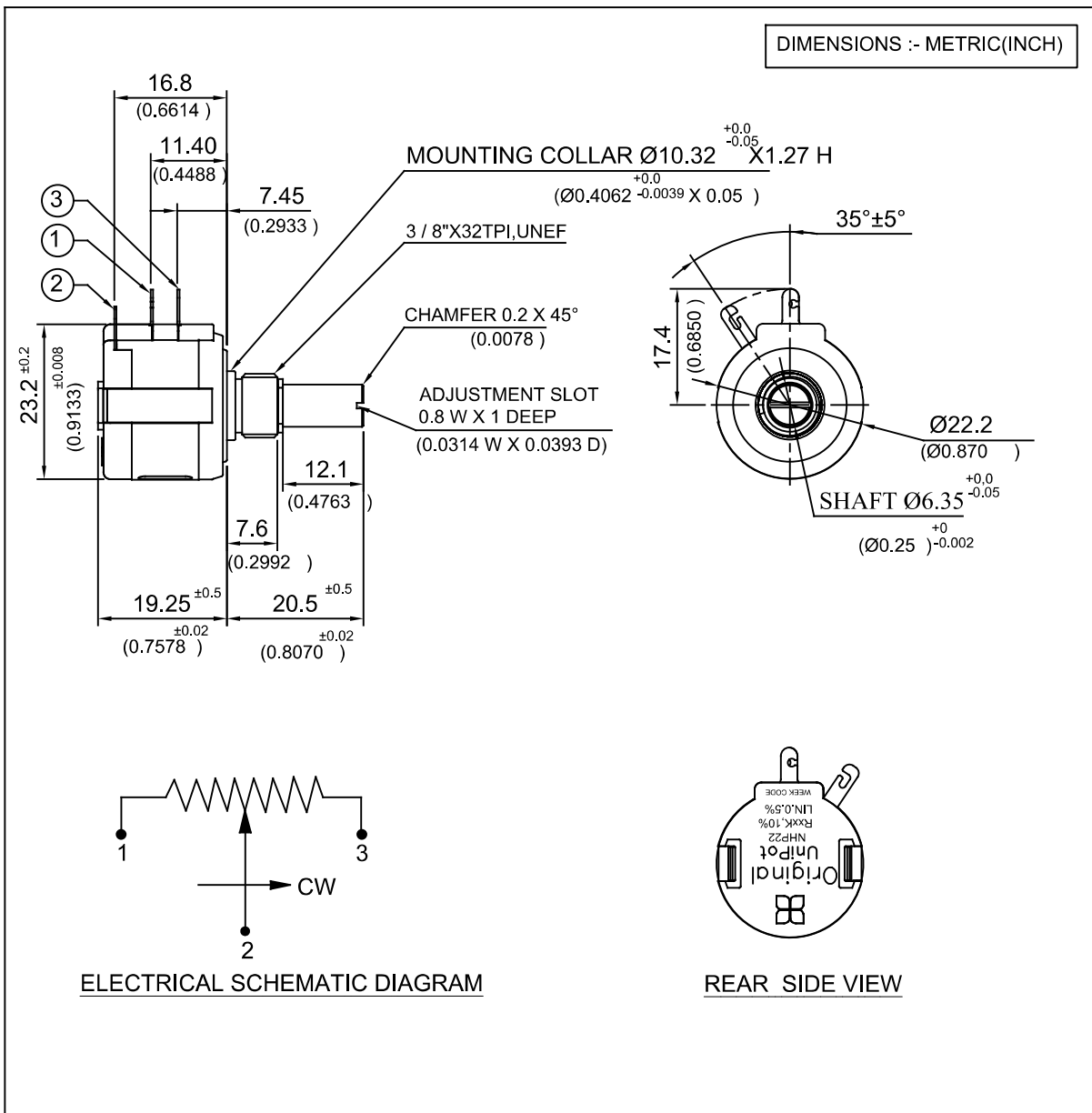




| ELECTRICAL CHARACTERISTICS :-                                                                                                                                                                                                                                                                                                                                |  | UNITS           | VALUE                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|-----------------------------------------------------------------|
| RESISTANCE ELEMENT...                                                                                                                                                                                                                                                                                                                                        |  | --              | WIRE WOUND                                                      |
| TOTAL RESISTANCE...                                                                                                                                                                                                                                                                                                                                          |  | Ohms            | 500,1K,2K,5K,10K                                                |
| RESISTANCE TOLERANCE...                                                                                                                                                                                                                                                                                                                                      |  | %               | ±10                                                             |
| INDEPENDENT LINEARITY TOLERANCE...(IEC 60393)..                                                                                                                                                                                                                                                                                                              |  | %               | ±0.25                                                           |
| EFFECTIVE ELECTRICAL ANGLE...                                                                                                                                                                                                                                                                                                                                |  | DEGREES         | 1800° <sup>+10°</sup> <sub>-0°</sub>                            |
| RESOLUTION...                                                                                                                                                                                                                                                                                                                                                |  | --              | AS PER TURNS                                                    |
| POWER RATING @ 70°C...                                                                                                                                                                                                                                                                                                                                       |  | WATTS           | 2                                                               |
| EQUIVALENT NOISE RESISTANCES...                                                                                                                                                                                                                                                                                                                              |  | Ohms            | 100                                                             |
| INSULATION RESISTANCE @ 500 VDC...                                                                                                                                                                                                                                                                                                                           |  | M Ohms          | 1000                                                            |
| DIELECTRIC STRENGTH @ 50 HZ...                                                                                                                                                                                                                                                                                                                               |  | V ac            | 750 MINIMUM                                                     |
| MAXIMUM WIPER CURRENT...                                                                                                                                                                                                                                                                                                                                     |  | mAmps           | 1.0                                                             |
| SHORT TIME WIPER CURRENT 10 SEC. ...                                                                                                                                                                                                                                                                                                                         |  | mAmps           | 10                                                              |
| END RESISTANCE...                                                                                                                                                                                                                                                                                                                                            |  | %               | 0.1% OR 5 OHMS WHICH IS HIGHER                                  |
| MECHANICAL CHARACTERISTICS :-                                                                                                                                                                                                                                                                                                                                |  |                 |                                                                 |
| ROTATION (MECHANICAL ANGLE) WITH END STOP                                                                                                                                                                                                                                                                                                                    |  | DEGREES         | 1800° <sup>+10°</sup> <sub>-0°</sub>                            |
| BEARING TYPE...                                                                                                                                                                                                                                                                                                                                              |  | --              | SLEEVE                                                          |
| STOPPER STRENGTH                                                                                                                                                                                                                                                                                                                                             |  | N.cm<br>Oz inch | 45<br>( 63.725 )                                                |
| TORQUE... STARTING...                                                                                                                                                                                                                                                                                                                                        |  | N.cm<br>Oz inch | 0.5<br>(0.708)                                                  |
| NUT TIGHTENING TORQUE...                                                                                                                                                                                                                                                                                                                                     |  | N.m             | 0.8 MAX                                                         |
| SPANNER SIZE OF NUT...                                                                                                                                                                                                                                                                                                                                       |  | --              | 14                                                              |
| AXIAL PLAY...                                                                                                                                                                                                                                                                                                                                                |  | mm              | 0.2                                                             |
| RADIAL PLAY...                                                                                                                                                                                                                                                                                                                                               |  | mm              | 0.15                                                            |
| ENVIRONMENTAL CHARACTERISTICS :-                                                                                                                                                                                                                                                                                                                             |  |                 |                                                                 |
| OPERATING TEMPERATURE...                                                                                                                                                                                                                                                                                                                                     |  | DEGREES C       | -40 to +125°C                                                   |
| ROHS COMPLIANCE...                                                                                                                                                                                                                                                                                                                                           |  | ---             | Yes                                                             |
| VIBRATION...                                                                                                                                                                                                                                                                                                                                                 |  | G               | 15                                                              |
| SHOCK                                                                                                                                                                                                                                                                                                                                                        |  | G               | 50                                                              |
| PERFORMANCE :-                                                                                                                                                                                                                                                                                                                                               |  |                 |                                                                 |
| ELECTRICAL LIFE...                                                                                                                                                                                                                                                                                                                                           |  | ROTATIONS       | 1,000,000                                                       |
| MATERIALS OF CONSTRUCTION:-                                                                                                                                                                                                                                                                                                                                  |  |                 |                                                                 |
| HOUSING...                                                                                                                                                                                                                                                                                                                                                   |  | --              | PLASTIC CAPRI BLUE                                              |
| SHAFT...                                                                                                                                                                                                                                                                                                                                                     |  | --              | STAINLESS STEEL                                                 |
| TERMINALS...                                                                                                                                                                                                                                                                                                                                                 |  | --              | BRASS, GOLD PLATED                                              |
| MOUNTING HARDWARE ....                                                                                                                                                                                                                                                                                                                                       |  | --              | LOCK WASHER-STEEL + NUT-BRASS, A/F 14 X 3 MM,BOTH NICKEL PLATED |
| SOLDERING RECOMMENDATION :- USE SOLDERING IRON AT 350° C FOR 3 SECOND MAXIMUM.<br>Clean the soldered pads with Isopropyl alcohol after soldering.<br>Continuous improvements are being made for enhancing performance for customer benefit in product design & process.The product supplied may be slightly different than described by above specifications |  |                 |                                                                 |
| UPDATED DETAILS. DATE 05/11/2024<br>1. STOPPER STRENGTH - ADDED OZ - IN - 63.725<br>2. ELECTRICAL LIFE - MENTIONED AS 1,000,000 ROTATIONS INSTEAD OF 100,000                                                                                                                                                                                                 |  |                 |                                                                 |

|                                                                                    |                        |                                                                                      |                               |               |
|------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------------------|---------------|
| UNI-AUTOMATION (I) PVT LTD<br>Tel/Fax: +91-(020)-24420890<br>www.uniautomation.com |                        | MULTI TURN WIRE WOUND<br>POTENTIOMETER<br>NHP22<br>MULTI TURN POTENTIOMETER (5 TURN) |                               |               |
| FIRST ISSUE : 2016/23/12                                                           | SCALE:- 1:1            |                                                                                      |                               |               |
| TOLERANCES<br>DIN-ISO 2768-1 (1991-06)<br>(Tolerance class-medium)                 | UAPL PART NO<br>139016 |                                                                                      | CUSTOMER DRAWING REF NO<br>NA | REV - 00      |
|                                                                                    |                        |                                                                                      | CUSTOMER : UAPL STANDARD      | SHEET<br>1of1 |