

Series 282

16mm Precision Rotary Potentiometer

- Conductive Plastic Element
- Extended Rotational Life (2 Million Cycles)
- Precision Linearity ($\pm 2\%$)
- Ingress Protection (IP65 & IP67 Options)
- Wide Operating Temperature Range
- Shaft and Bushing Length Options
- Terminal Options
- Continuous Rotation Available



Description

The 282 Series robust construction provides the user with a long life, highly reliable precision product in a sealed housing which meets up IP standards. Options include various terminal configurations, shaft and bushing lengths, shaft styles, resistance values and tolerances, and various rotation angles to meet design requirements.

Ordering Information

| Series | Terminal Styles | Bushing Length "A" | Shaft Length "L" | Shaft Trim | Resistance Code | Resistance Tolerance | Linearity | IP Rating | Rotational Angle | A/R Lug Options | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|--------------------|------------------|------------|-----------------|----------------------|---------------------------|-----------|--------------------|--|--|-------------------------------|-------|---|----------------|---|----------------|---|----------------|----------------------------|-----------------|--------------------------------|-----------------|--|--|-------------------------------|-------|------|--------------|-------|--------------|---|--------------|-----|--------------|------------------------|---------------|----------------------|---------|------------------------------|----|--|-------|------|------------|-------|--------------|---------|----------------|---|--------------|------|---------------|-----|---------------|-----|----------------|---|----------------|---|-------|------------|-------|------|------|---|------|---|---|------|-------|---|-----------|--|--|------|-------|---|------------------|---|-----------------|---|--------|
| 282 | T | A | A | R | 103 | A | 2 | 5 | B | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Code</th> <th>Spec</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Solder lug</td> </tr> <tr> <td>S</td> <td>Solder lug formed to rear</td> </tr> <tr> <td>U</td> <td>PC formed to front</td> </tr> </tbody> </table> | | Code | Spec | T | Solder lug | S | Solder lug formed to rear | U | PC formed to front | <table border="1"> <thead> <tr> <th>Code</th> <th>Spec.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>.625" (15.8mm)</td> </tr> <tr> <td>2</td> <td>.750" (18.4mm)</td> </tr> <tr> <td>3</td> <td>.875" (22.2mm)</td> </tr> <tr> <td>4</td> <td>1.000" (25.4mm)</td> </tr> <tr> <td>5</td> <td>1.125" (28.5mm)</td> </tr> <tr> <td colspan="2"><i>Diameter: 1/4"</i></td> </tr> <tr> <td colspan="2"><i>Length increment: 1/8"</i></td> </tr> <tr> <td>A</td> <td>10mm (.393")</td> </tr> <tr> <td>B</td> <td>15mm (.590")</td> </tr> <tr> <td>C</td> <td>20mm (.787")</td> </tr> <tr> <td>D</td> <td>25mm (.984")</td> </tr> <tr> <td>E</td> <td>30mm (1.181")</td> </tr> <tr> <td colspan="2"><i>Diameter: 6mm</i></td> </tr> <tr> <td colspan="2"><i>Length increment: 5mm</i></td> </tr> </tbody> </table> | | Code | Spec. | 1 | .625" (15.8mm) | 2 | .750" (18.4mm) | 3 | .875" (22.2mm) | 4 | 1.000" (25.4mm) | 5 | 1.125" (28.5mm) | <i>Diameter: 1/4"</i> | | <i>Length increment: 1/8"</i> | | A | 10mm (.393") | B | 15mm (.590") | C | 20mm (.787") | D | 25mm (.984") | E | 30mm (1.181") | <i>Diameter: 6mm</i> | | <i>Length increment: 5mm</i> | | <table border="1"> <thead> <tr> <th>Code</th> <th>Resistance</th> </tr> </thead> <tbody> <tr> <td>102</td> <td>1 kΩ</td> </tr> <tr> <td>252</td> <td>2.5 kΩ</td> </tr> <tr> <td>502</td> <td>5 kΩ</td> </tr> <tr> <td>103</td> <td>10 kΩ</td> </tr> <tr> <td>503</td> <td>50 kΩ</td> </tr> <tr> <td>104</td> <td>100 kΩ</td> </tr> <tr> <td>504</td> <td>500 kΩ</td> </tr> </tbody> </table> | | Code | Resistance | 102 | 1 k Ω | 252 | 2.5 k Ω | 502 | 5 k Ω | 103 | 10 k Ω | 503 | 50 k Ω | 104 | 100 k Ω | 504 | 500 k Ω | <table border="1"> <thead> <tr> <th>Code</th> <th>Spec.</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>IP54</td> </tr> <tr> <td>6</td> <td>IP67</td> </tr> </tbody> </table> | | Code | Spec. | 5 | IP54 | 6 | IP67 | <table border="1"> <thead> <tr> <th>Code</th> <th>Spec.</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>$\pm 2\%$</td> </tr> </tbody> </table> | | Code | Spec. | 2 | $\pm 2\%$ | <table border="1"> <thead> <tr> <th>Code</th> <th>Spec.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Left side (10mm)</td> </tr> <tr> <td>2</td> <td>Left side (8mm)</td> </tr> <tr> <td>3</td> <td>No lug</td> </tr> </tbody> </table> | | Code | Spec. | 1 | Left side (10mm) | 2 | Left side (8mm) | 3 | No lug |
| Code | Spec | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T | Solder lug | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | Solder lug formed to rear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | PC formed to front | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Spec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | .625" (15.8mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | .750" (18.4mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | .875" (22.2mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1.000" (25.4mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1.125" (28.5mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Diameter: 1/4"</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Length increment: 1/8"</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 10mm (.393") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 15mm (.590") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 20mm (.787") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 25mm (.984") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | 30mm (1.181") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Diameter: 6mm</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Length increment: 5mm</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Resistance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | 1 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 252 | 2.5 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 502 | 5 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | 10 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 503 | 50 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | 100 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 504 | 500 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Spec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | IP54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | IP67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Spec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | $\pm 2\%$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Spec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Left side (10mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Left side (8mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | No lug | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Code | Spec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | .250" (6.35mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | .375" (9.53mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | .500" (12.7mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Diameter: 3/8" - 32UNEF-2A</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Length increment: 1/8"</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 5.0mm (.196") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 7.5mm (.295") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 10.0mm (.393") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Diameter: M9 x .75P</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Length increment: 2.5mm</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Spec. | Dia. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R* | Round | 6mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | Flatted | 6mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | Split Knurl (24 Teeth) | 6mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | Slotted | 6mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O* | Round | .250" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | Flatted | .250" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | Slotted | .250" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Spec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | $\pm 10\%$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | $\pm 20\%$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Total | Electrical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 250° | 240° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 300° | 280° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 360° | 340° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*Not available with 360° rotation

Electrical Specifications

| Parameter | Conditions & Remarks | Min | Max | Unit |
|-------------------------|----------------------|------|------|------|
| Resistance Range | Linear | 1k | 500k | Ω |
| | Audio | 100k | 500k | Ω |
| Resistance Tolerance | Standard | -20 | +20 | % |
| | Special | -10 | +10 | % |
| Dielectric Strength | 1 minute | | 750 | VDC |
| Power Rating (Standard) | @ 55°C | | 0.25 | watt |
| Power Rating (Special) | @ 75°C | | 0.50 | watt |
| Operating Voltage | | | 500 | VDC |
| Insulation Resistance | 500 VDC | 1000 | | MΩ |
| Linearity | | +2 | -2 | % |

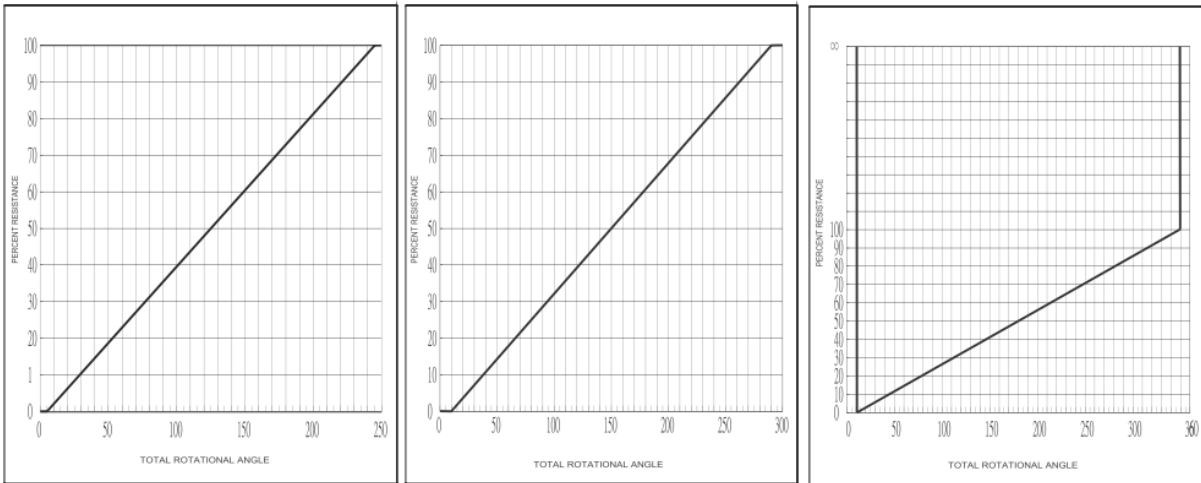
Mechanical and Environmental

| Parameter | Conditions & Remarks | Min | Max | Unit |
|-----------------------------|--|-----------|------|--------|
| Operating Temperature | | -40 | +125 | °C |
| Storage Temperature | | -55 | +150 | °C |
| Rotational Torque | | 20 | 180 | gf-cm |
| Rotational Life | | 2,000,000 | | cycles |
| Stop Strength | | 9 | | kgf-cm |
| Mechanical Angle | 250°, 300° & 360° | | | |
| Vibration | 15 G, 10 to 2000 Hz | | | |
| Push-Pull Strength of Shaft | 13.6 kg for 10 seconds | | | |
| Ingress Protection Rating | IP54 & IP67 | | | |
| Soldering Condition: | Maximum temperature of 350°C for 5 seconds | | | |
| Mounting Information | Bushing mount | | | |
| Packaging: | Standard tray packaging | | | |

All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications. This product is compliant to RoHS3 Directive 2015/863 Amendments of Annex II on 31 March 2015, and REACH SVHC Directive EC 1907/2006 Amendments of Annex XIV & Annex XVII on 15 January 2018. Custom and value-added options available on request. Please contact your sales representative for additional information.

Electrical and Mechanical Specifications

Resistance Tapers



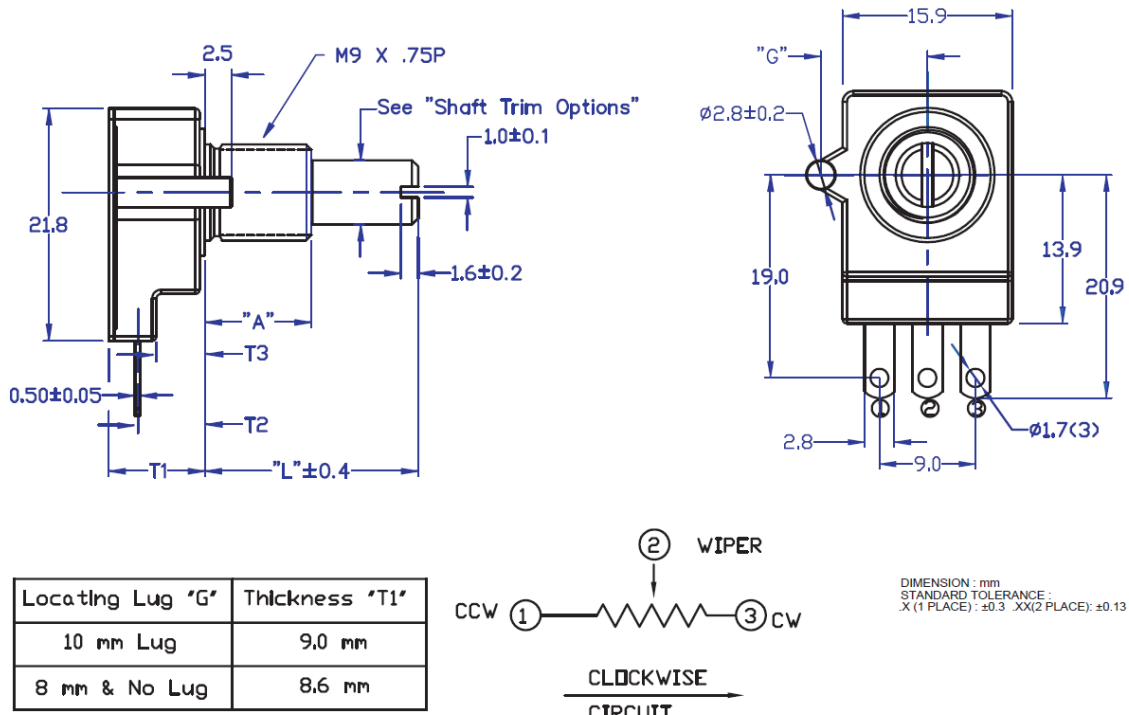
TOTAL ROTATIONAL ANGLE: 250

TOTAL ROTATIONAL ANGLE: 300°

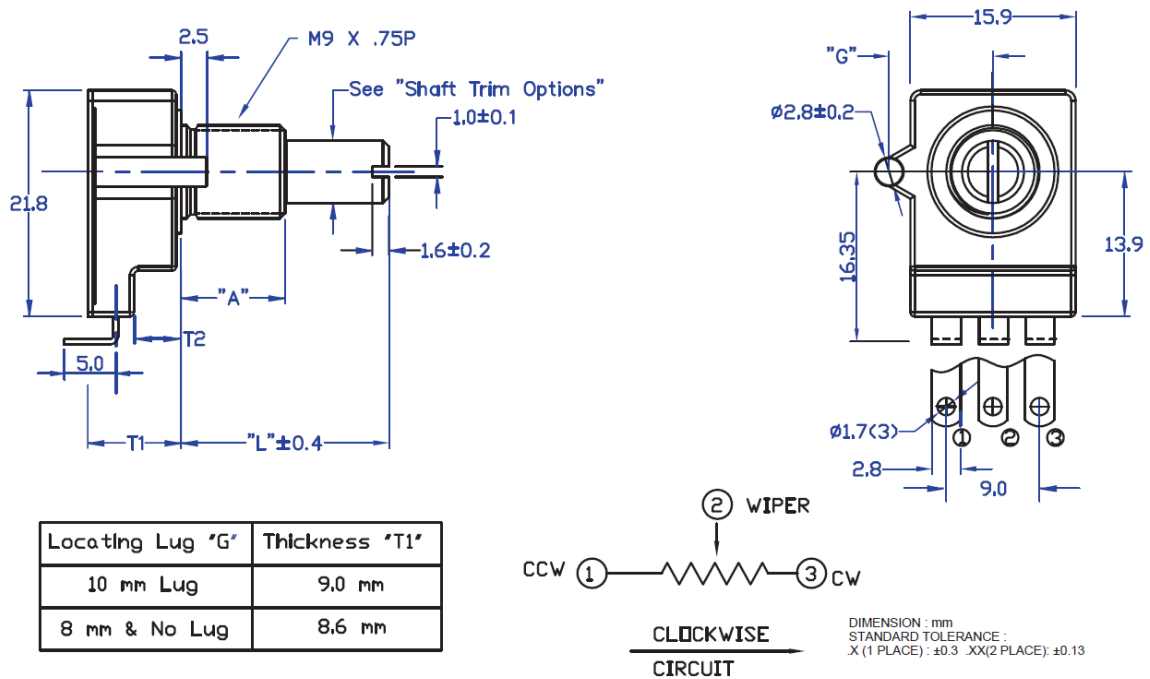
TOTAL ROTATIONAL ANGLE: 360°

Electrical and Mechanical Specifications

Series 282T Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 8 mm Locating Lug

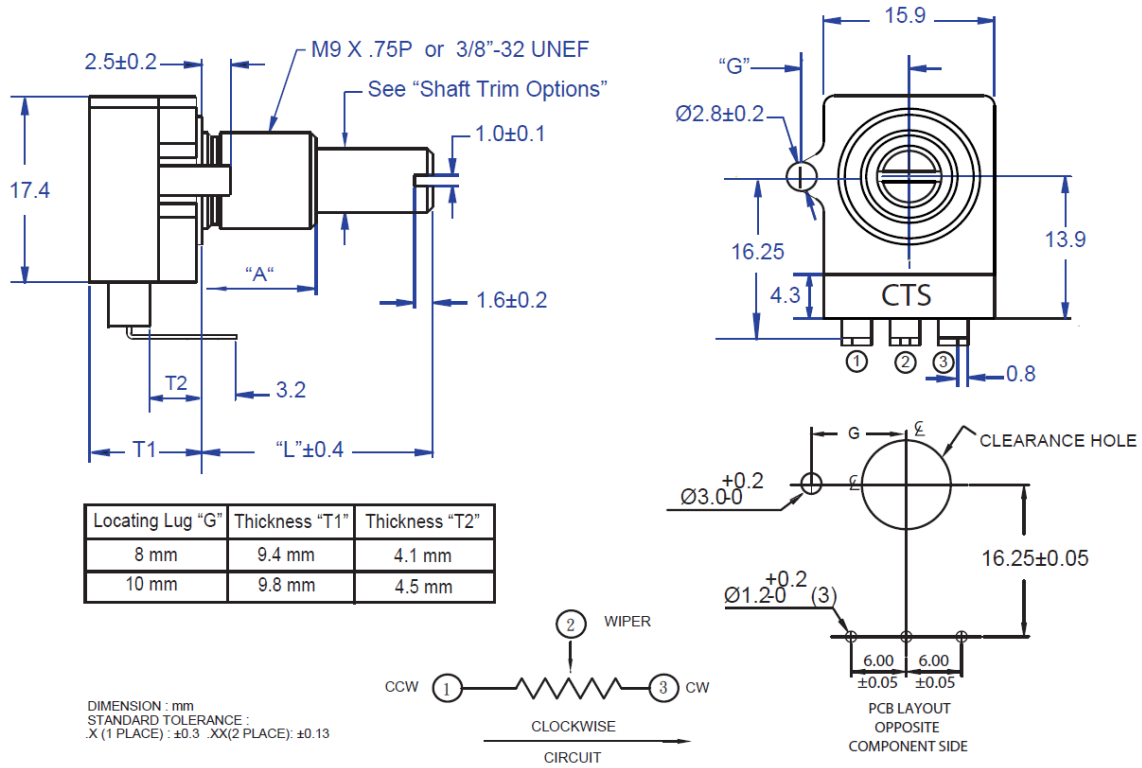


Series 282S Metal Shaft, Bushing Mount, Solder Lug "S" Type Terminal Formed to Rear



Electrical and Mechanical Specifications

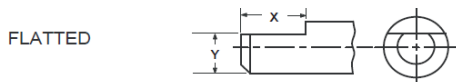
Series 282U Metal Shaft, Bushing Mount, PC "U" Type Terminal Formed to Front



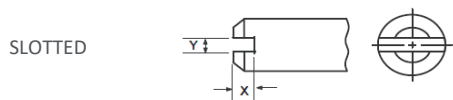
Shaft Trim and Diameter Options



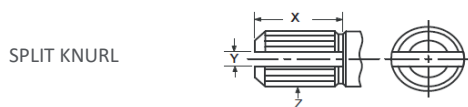
| Shaft Trim | Diameter |
|------------|-----------------|
| R | .236" (6.00 mm) |
| O | .250" (6.35 mm) |



| Shaft Trim | Diameter | X | Y |
|------------|-----------------|------------------|-----------------|
| F | .236" (6.00 mm) | .375" (9.52 mm) | .156" (3.96 mm) |
| L | .250" (6.35 mm) | .440" (11.18 mm) | .217" (5.50 mm) |



| Shaft Trim | Diameter | X | Y |
|------------|-----------------|---------------|---------------|
| S | .236" (6.00 mm) | .063" (1.6mm) | .039" (1.0mm) |
| D | .250" (6.35 mm) | .063" (1.6mm) | .039" (1.0mm) |



| Shaft Trim | Diameter | X | Y | Z |
|------------|-----------------|-----------------|-----------------|----------|
| K | .236" (6.00 mm) | .344" (8.74 mm) | .063" (1.60 mm) | 24 Teeth |